Full wwPDB EM Validation Report

May 26, 2025 – 10:12 PM EDT

PDB ID	:	7MT0 / pdb_00007mt0
EMDB ID	:	EMD-23973
Title	:	Structure of the adeno-associated virus 9 capsid at pH 7.4
Authors	:	Penzes, J.J.; Chipman, P.; Bhattacharya, N.; Zeher, A.; Huang, R.; McKenna, R.; Agbandje-McKenna, M.
Deposited on	:	2021-05-12
Resolution	:	2.82 Å(reported)
Based on initial model	:	3UX1

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (i)) were used in the production of this report:

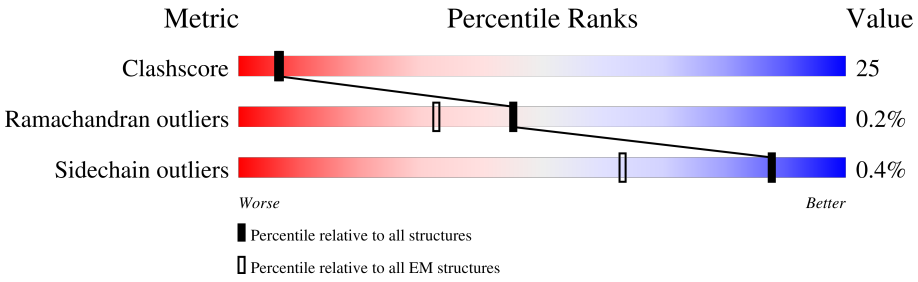
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 2.82 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1	518	58% 41%
1	2	518	58% 41%
1	3	518	59% 40%
1	4	518	58% 42%
1	5	518	57% 42%
1	6	518	58% 41%
1	7	518	58% 42%
1	8	518	58% 42%

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Mol	Chain	Length	Quality of chain
1	A	518	58% 41%
1	B	518	58% 41%
1	C	518	58% 41%
1	D	518	58% 41%
1	E	518	58% 42%
1	F	518	59% 41%
1	G	518	58% 41%
1	H	518	58% 41%
1	I	518	58% 41%
1	J	518	58% 41%
1	K	518	58% 42%
1	L	518	58% 41%
1	M	518	58% 42%
1	N	518	58% 41%
1	O	518	57% 42%
1	P	518	58% 42%
1	Q	518	58% 41%
1	R	518	59% 40%
1	S	518	59% 41%
1	T	518	59% 41%
1	U	518	58% 41%
1	V	518	58% 41%
1	W	518	58% 41%
1	X	518	58% 41%
1	Y	518	59% 41%

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Mol	Chain	Length	Quality of chain
1	Z	518	58% 41%
1	a	518	58% 41%
1	b	518	57% 42%
1	c	518	58% 41%
1	d	518	59% 41%
1	e	518	58% 42%
1	f	518	59% 40%
1	g	518	59% 41%
1	h	518	58% 41%
1	i	518	58% 42%
1	j	518	59% 40%
1	k	518	58% 41%
1	l	518	58% 41%
1	m	518	58% 41%
1	n	518	58% 41%
1	o	518	58% 41%
1	p	518	58% 41%
1	q	518	58% 41%
1	r	518	58% 42%
1	s	518	59% 41%
1	t	518	58% 42%
1	u	518	58% 42%
1	v	518	58% 41%
1	w	518	58% 41%
1	x	518	59% 40%

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Mol	Chain	Length	Quality of chain
1	y	518	58% 42%
1	z	518	59% 41%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 247860 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	B	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	C	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	D	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	E	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	F	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	G	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	H	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	I	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	J	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	K	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	L	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	M	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	N	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	O	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	P	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	Q	518	Total 4131	C 2608	N 718	O 791	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	S	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	T	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	U	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	V	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	W	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	X	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	Y	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	Z	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	1	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	2	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	3	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	4	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	5	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	6	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	a	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	b	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	c	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	d	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	e	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	f	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	h	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	i	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	j	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	k	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	l	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	m	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	n	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	o	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	p	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	q	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	r	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	s	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	t	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	u	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	v	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	w	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	x	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	y	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	z	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	7	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

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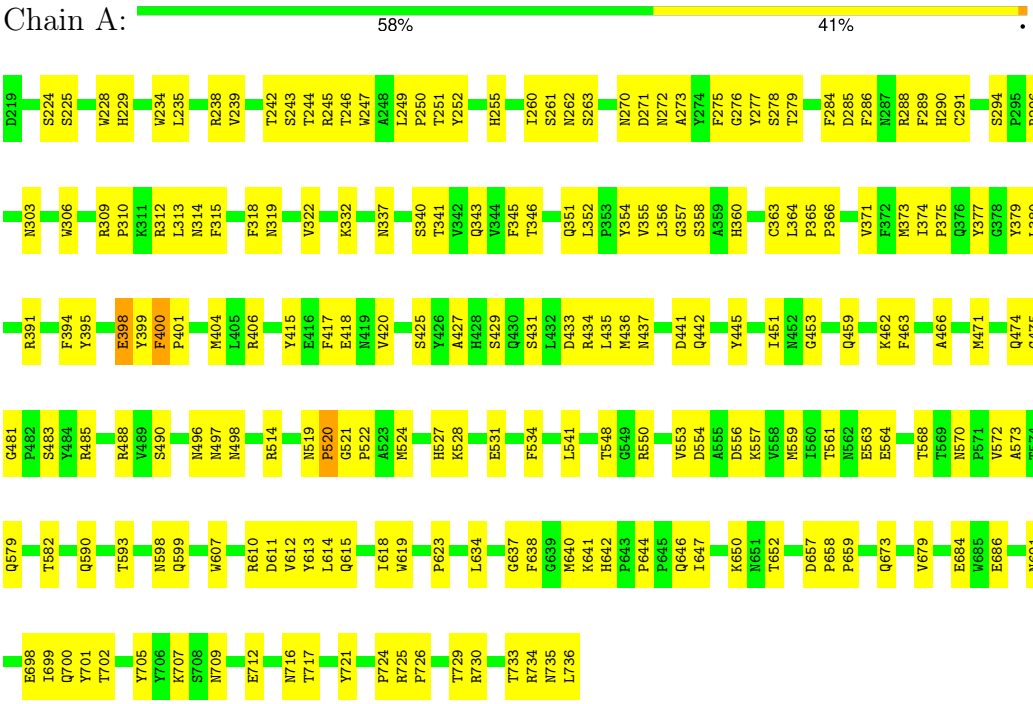
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

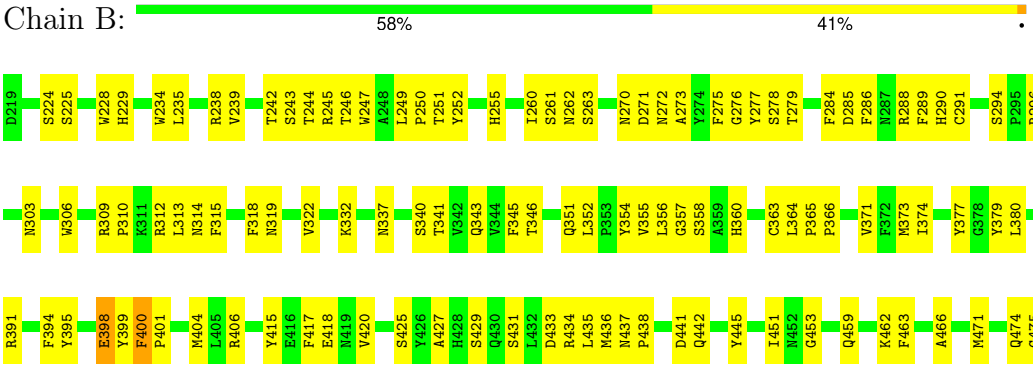
- Molecule 1: Capsid protein VP1

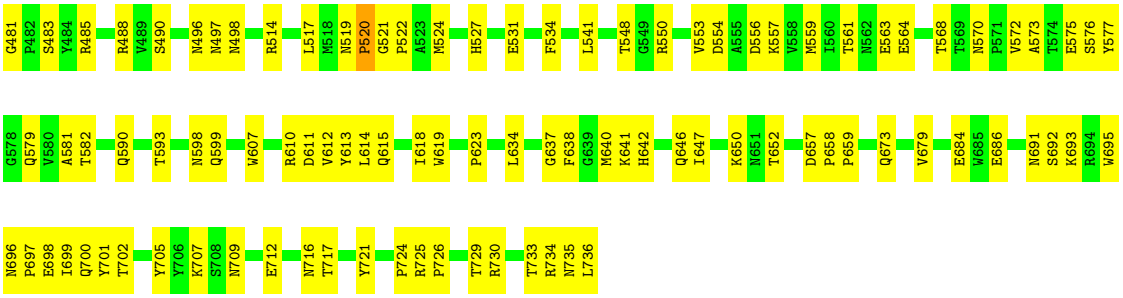
Chain A:



- Molecule 1: Capsid protein VP1

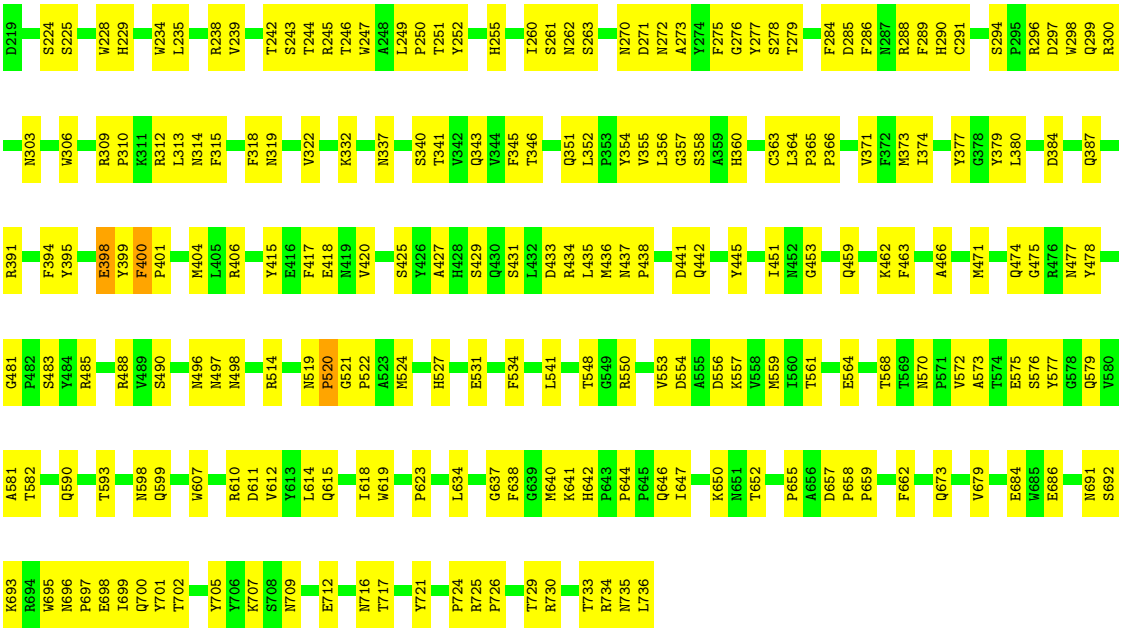
Chain B:





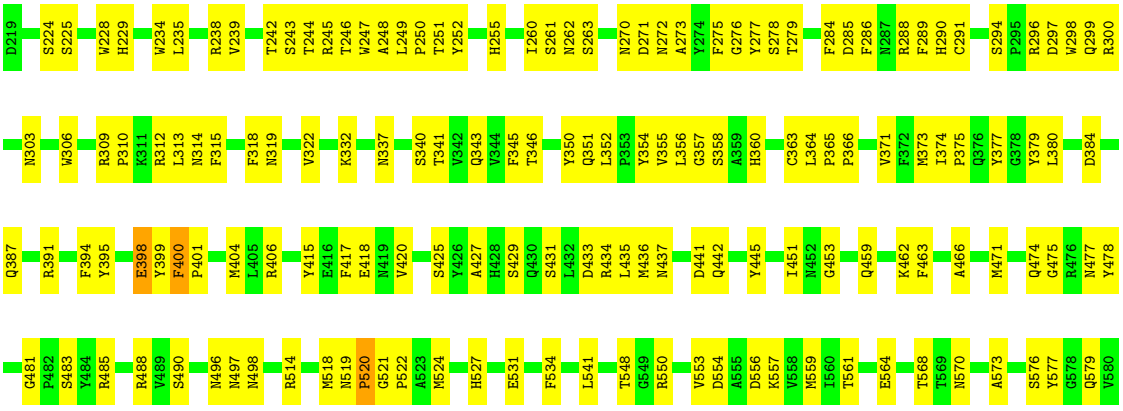
• Molecule 1: Capsid protein VP1

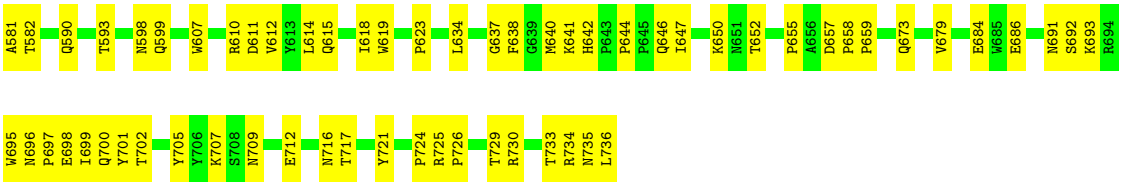
Chain C:



• Molecule 1: Capsid protein VP1

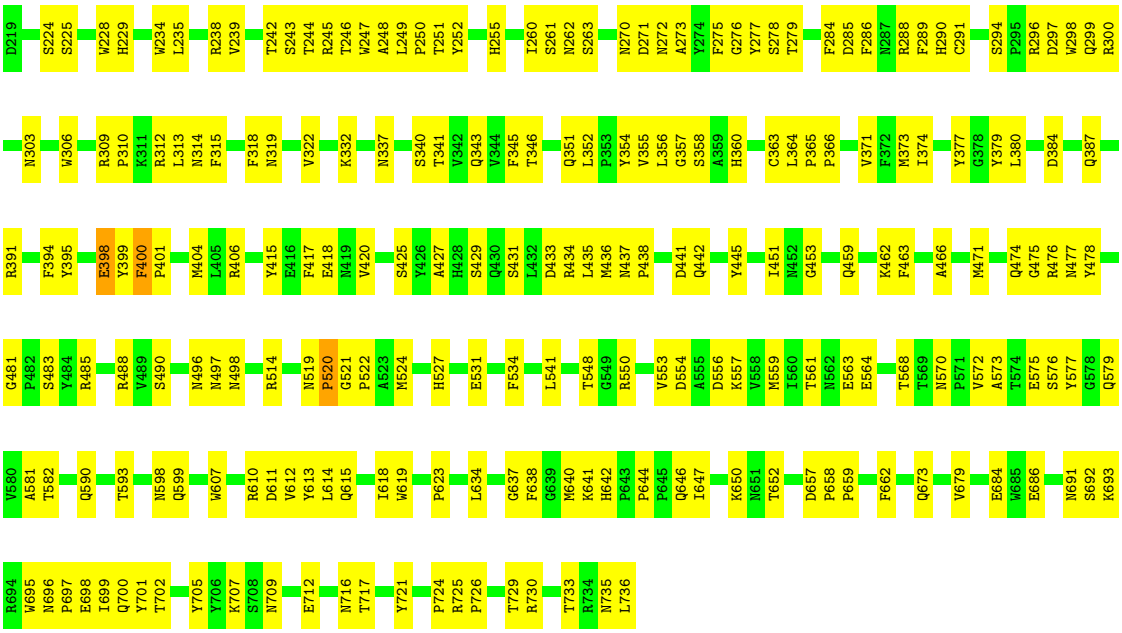
Chain D:





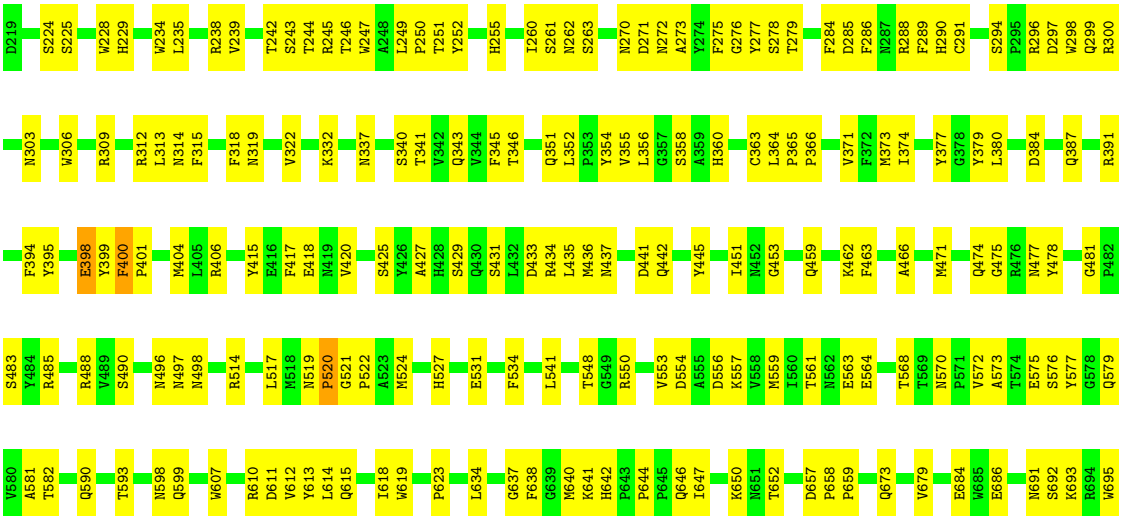
• Molecule 1: Capsid protein VP1

Chain E:



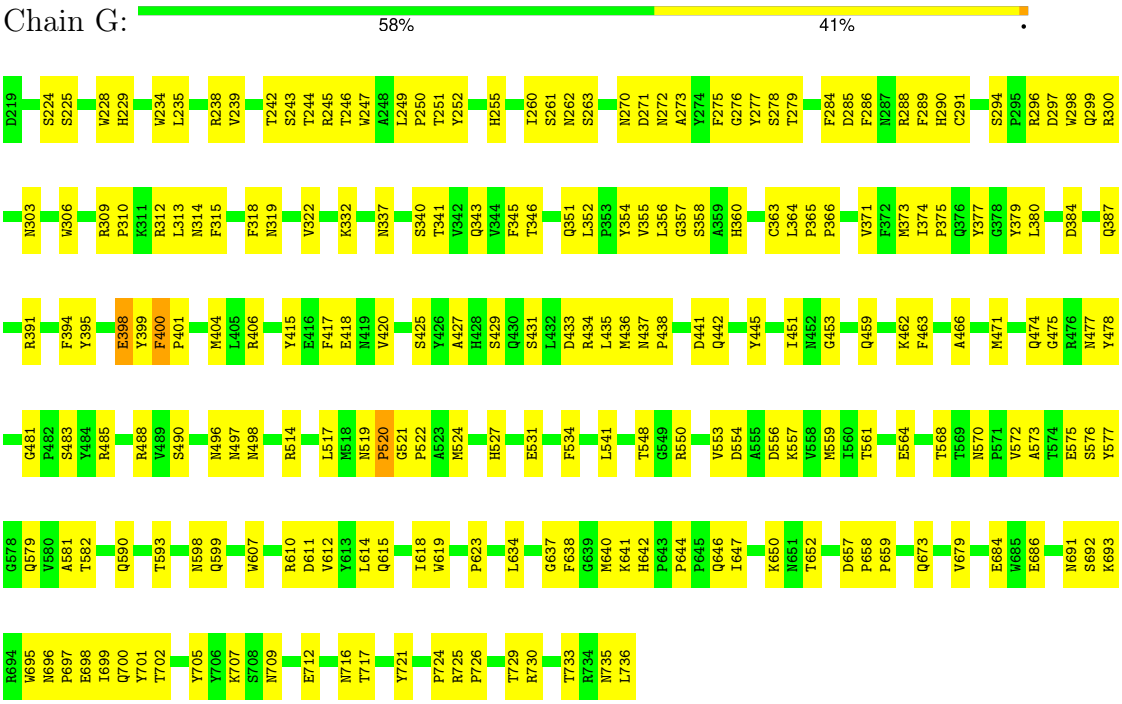
• Molecule 1: Capsid protein VP1

Chain F:



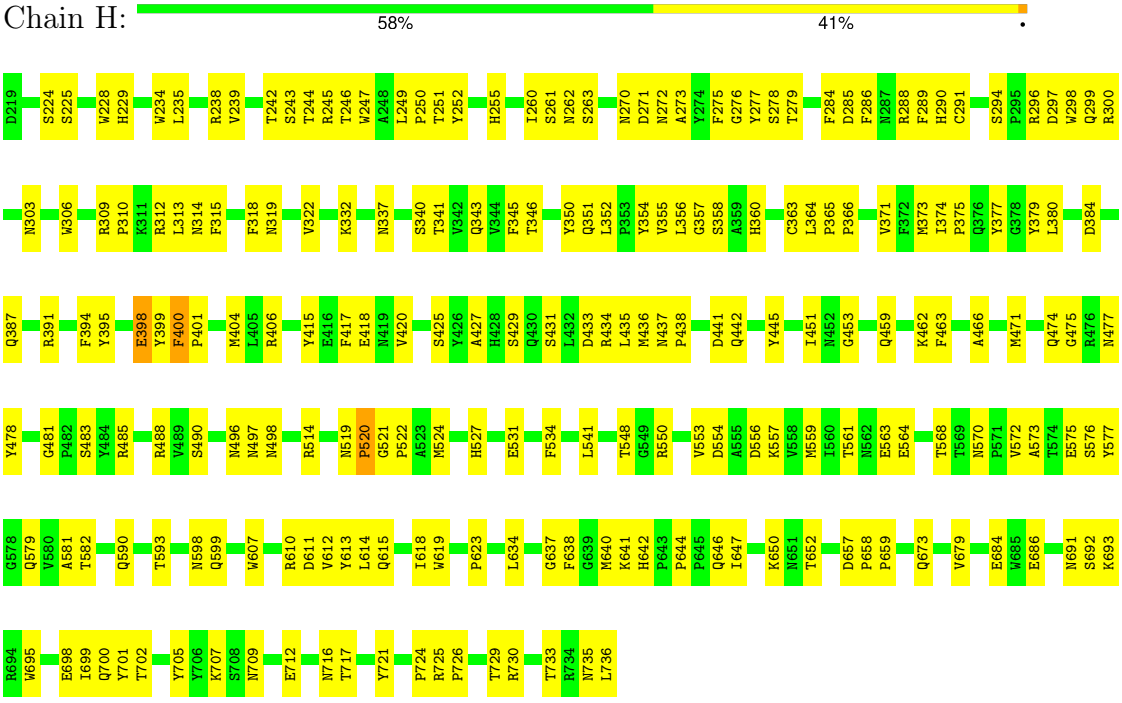
• Molecule 1: Capsid protein VP1

Chain G:



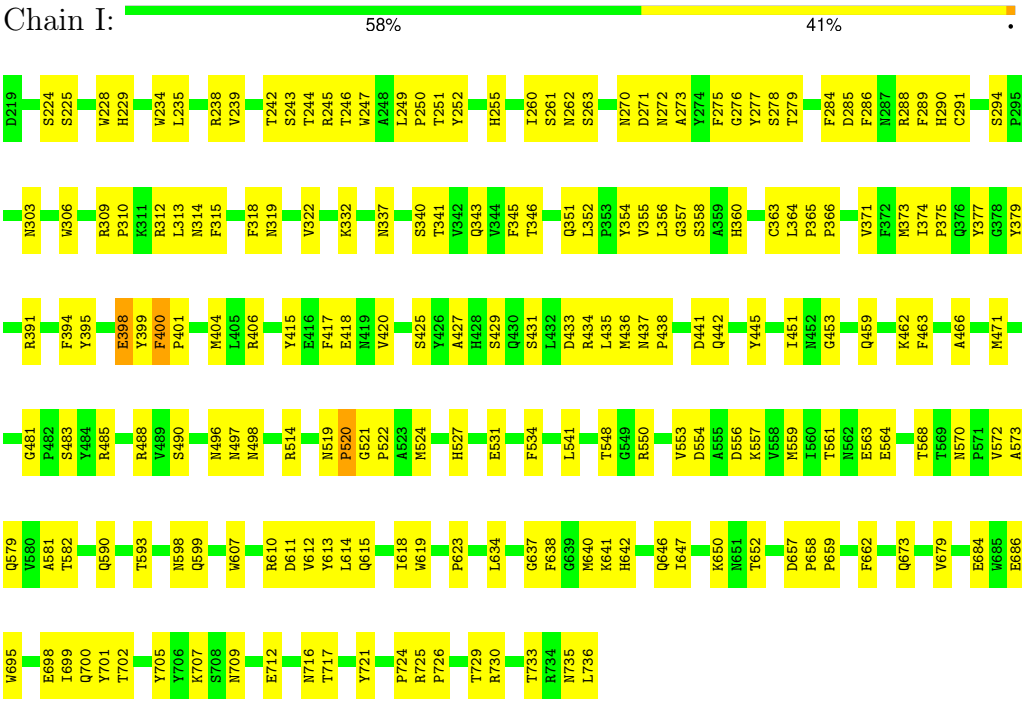
• Molecule 1: Capsid protein VP1

Chain H:



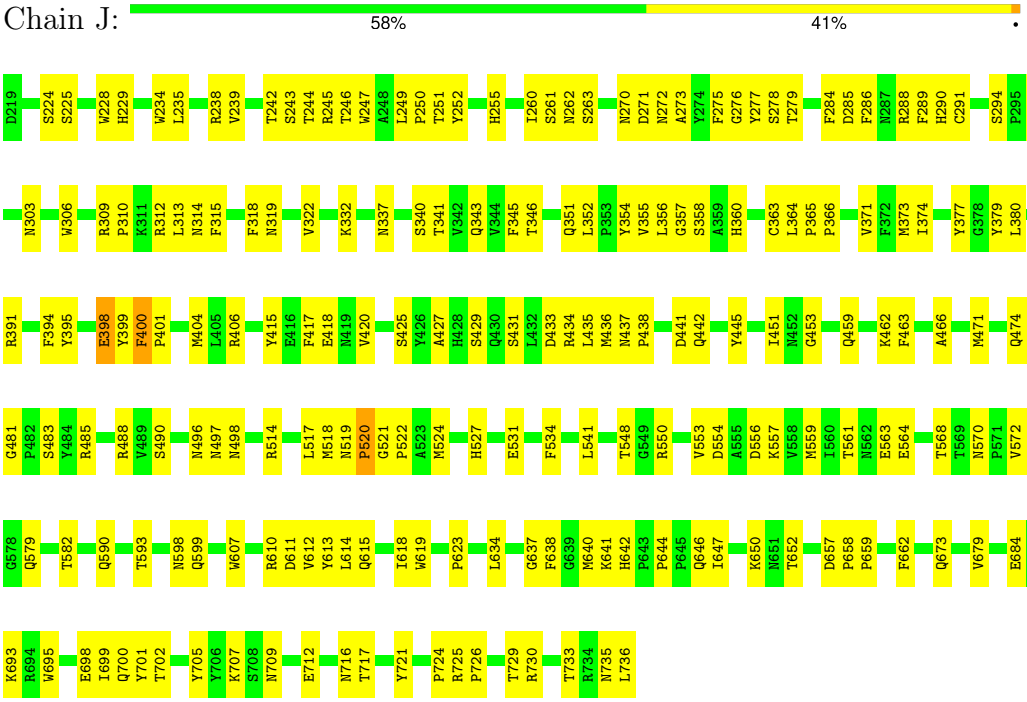
• Molecule 1: Capsid protein VP1

Chain I:



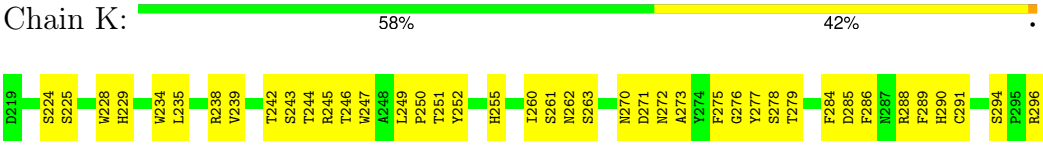
• Molecule 1: Capsid protein VP1

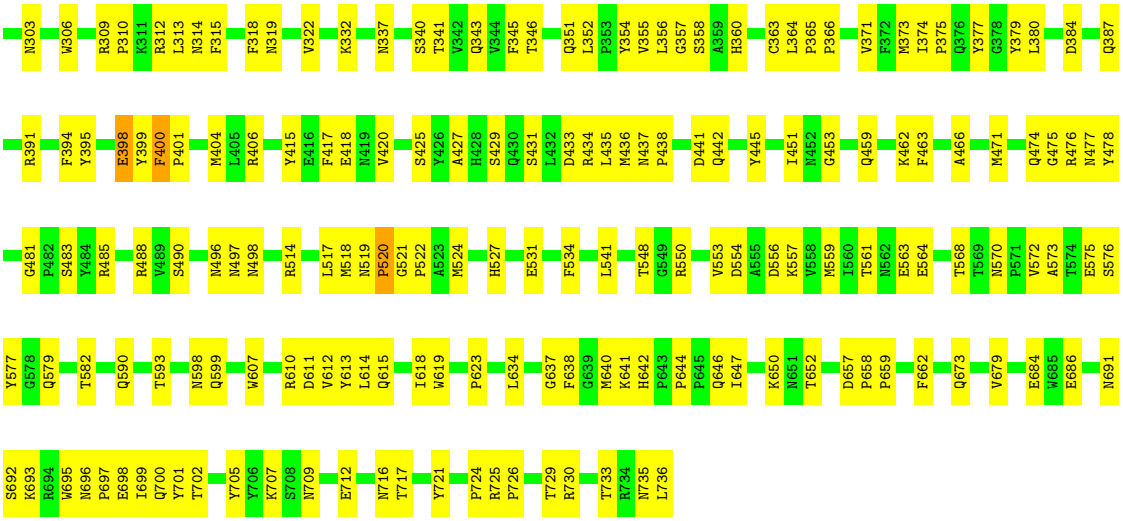
Chain J:



• Molecule 1: Capsid protein VP1

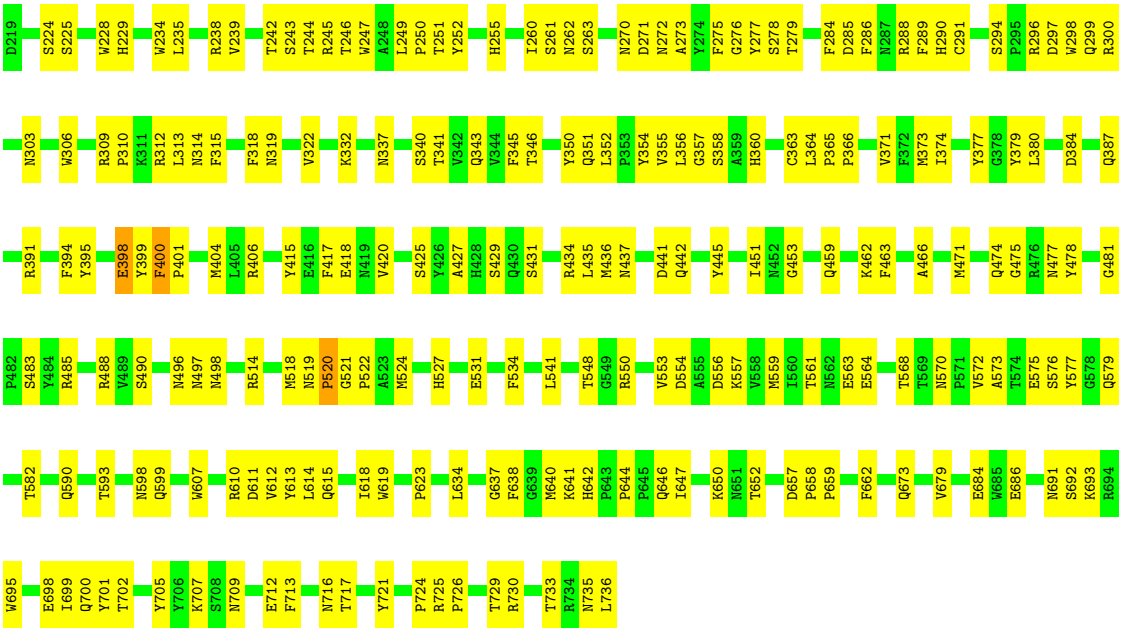
Chain K:





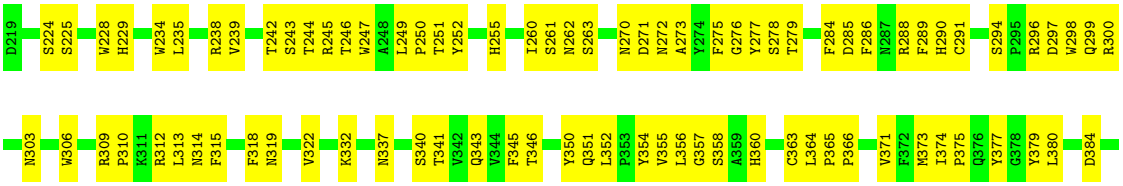
• Molecule 1: Capsid protein VP1

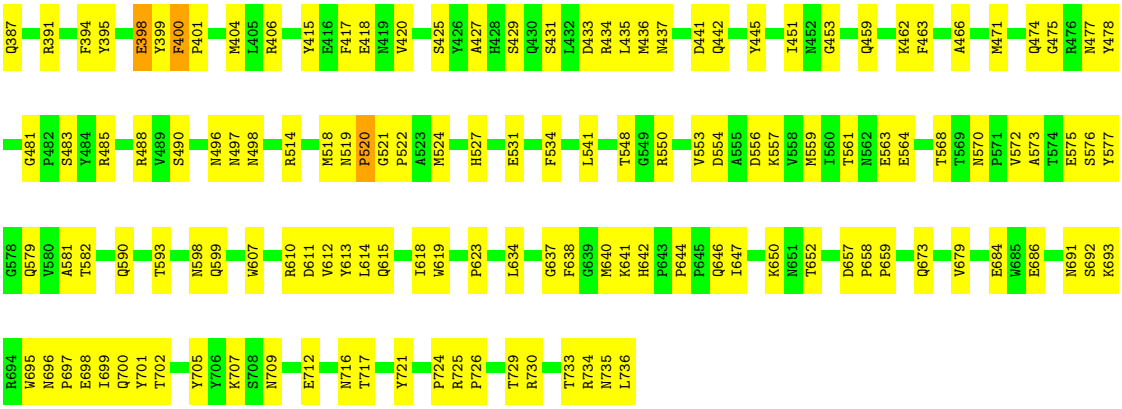
Chain L:



• Molecule 1: Capsid protein VP1

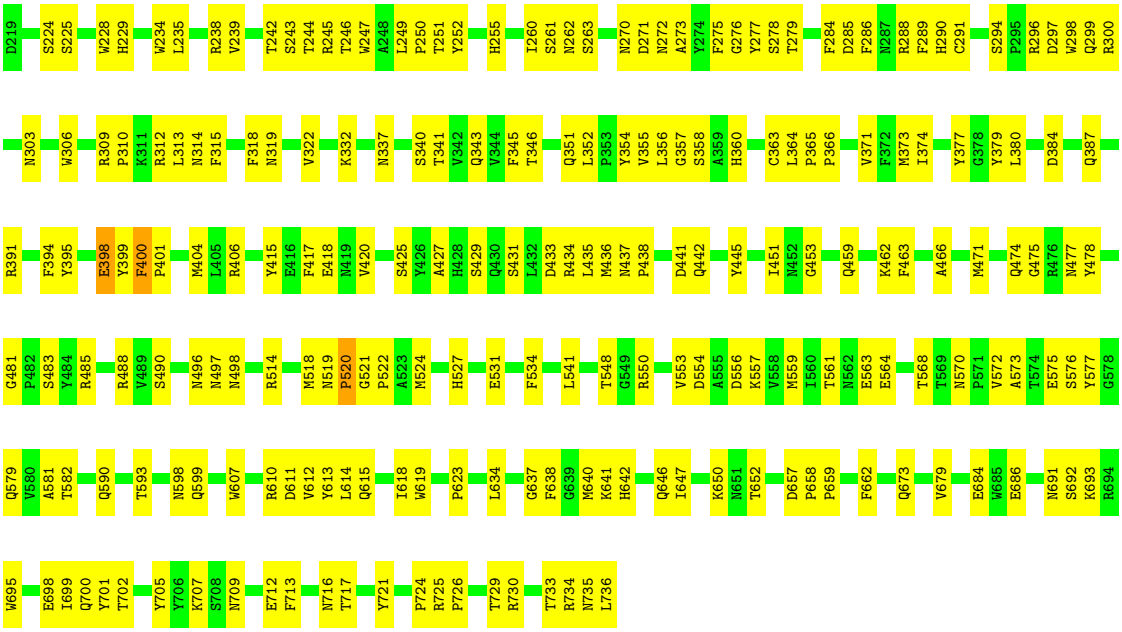
Chain M:





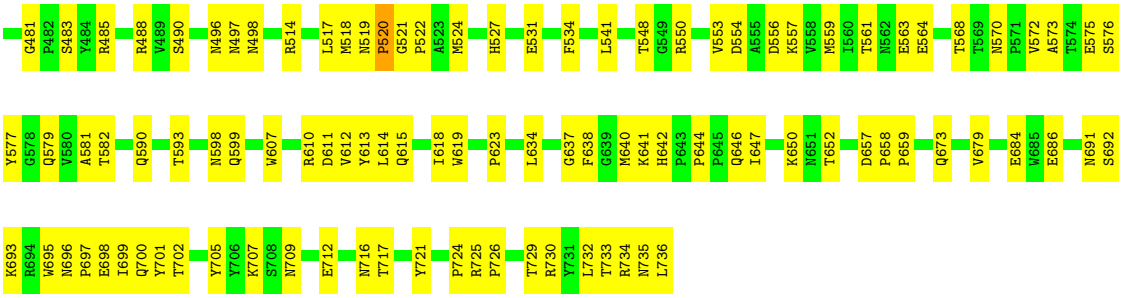
• Molecule 1: Capsid protein VP1

Chain N:



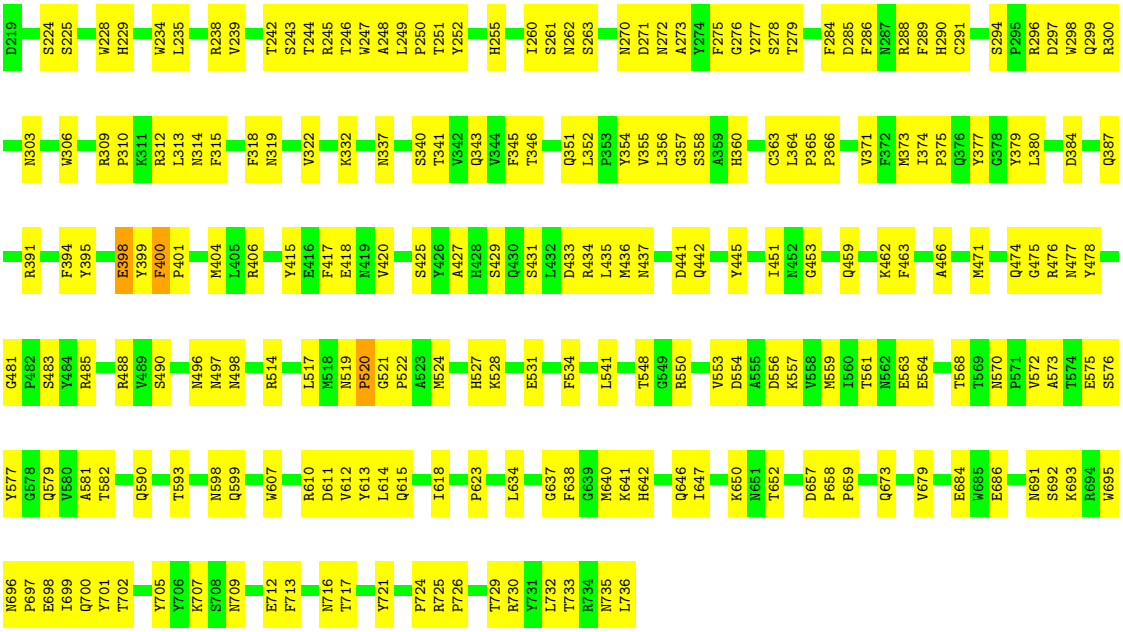
• Molecule 1: Capsid protein VP1

Chain O:



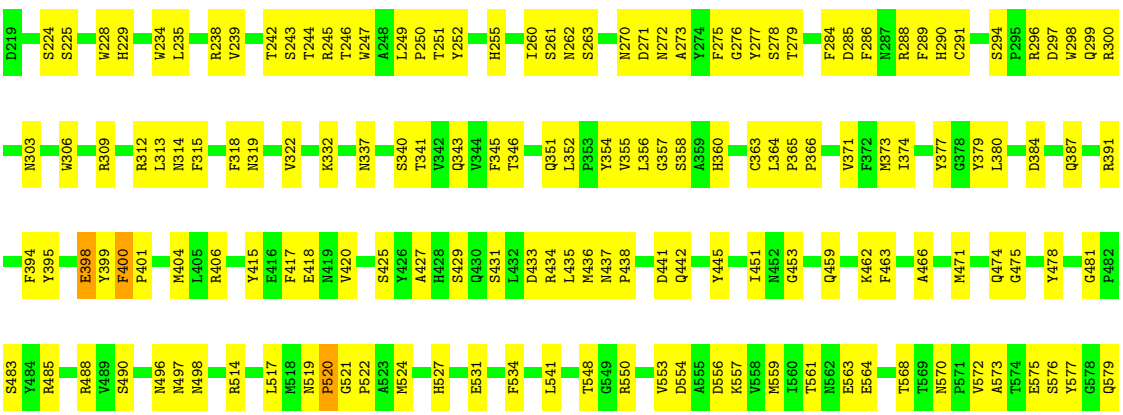
• Molecule 1: Capsid protein VP1

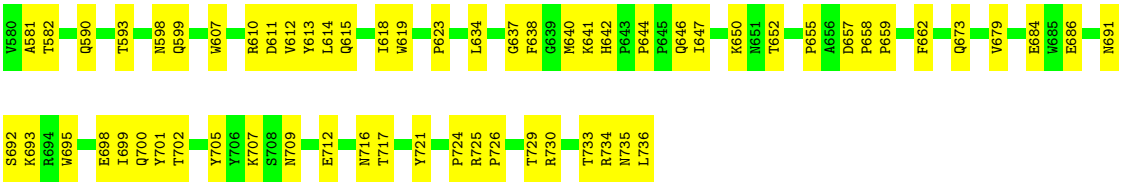
Chain P:



• Molecule 1: Capsid protein VP1

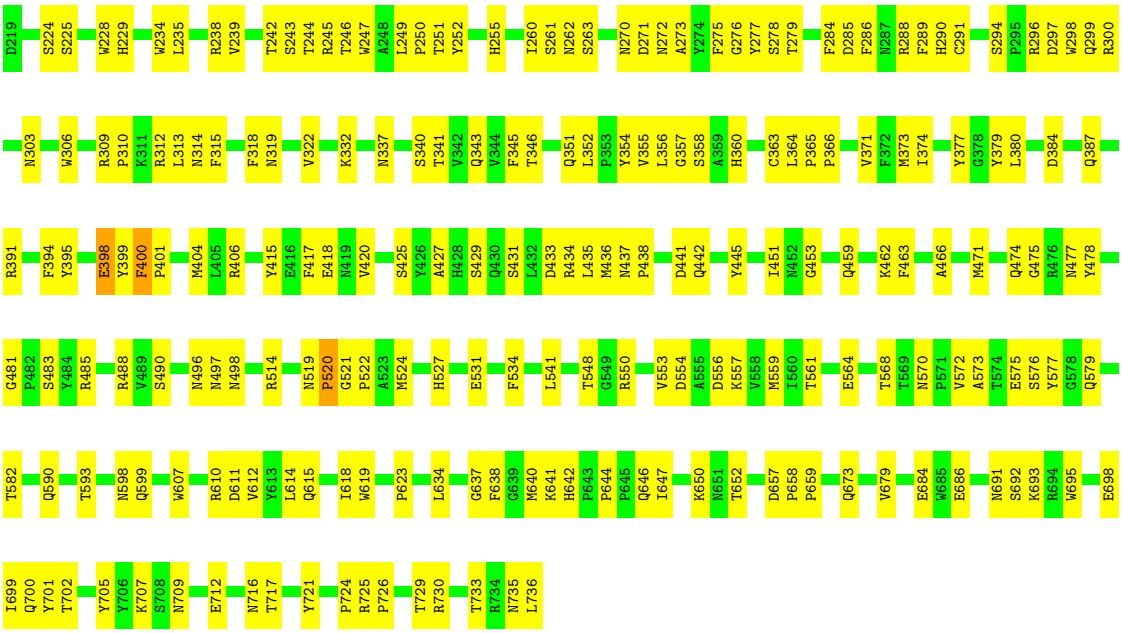
Chain Q:





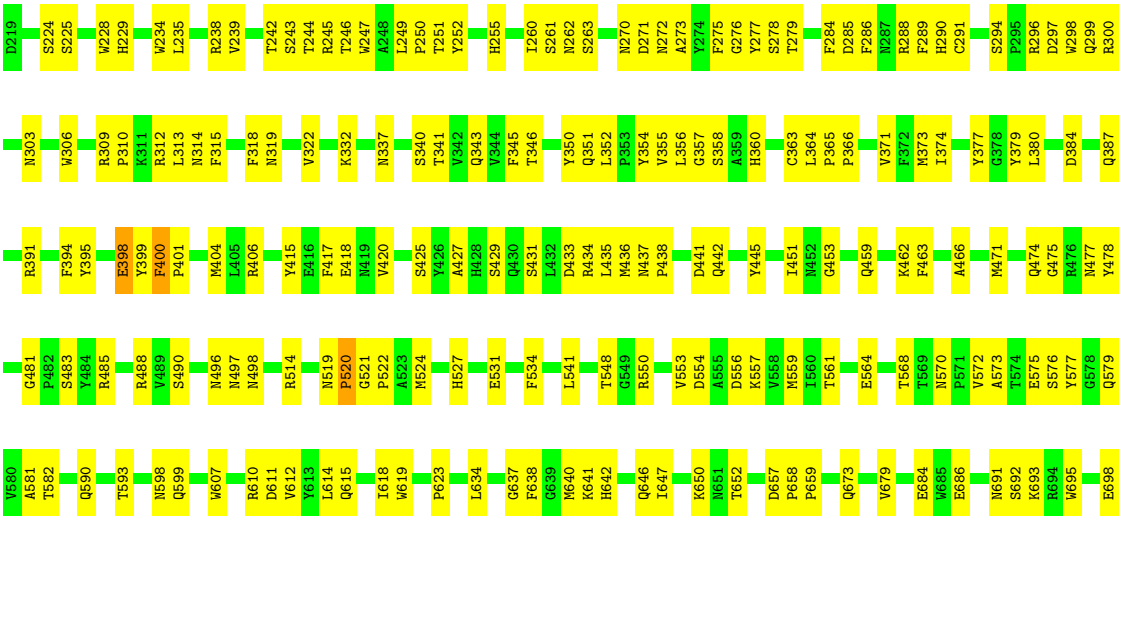
• Molecule 1: Capsid protein VP1

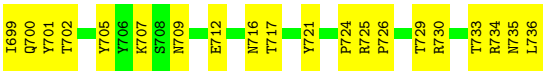
Chain R:



• Molecule 1: Capsid protein VP1

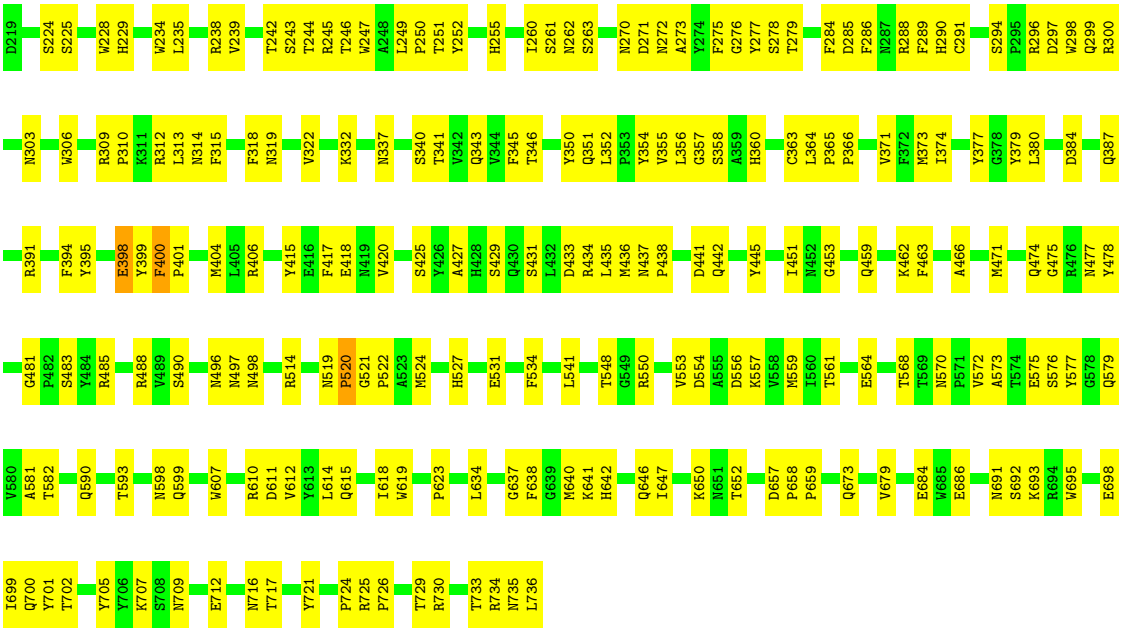
Chain S:





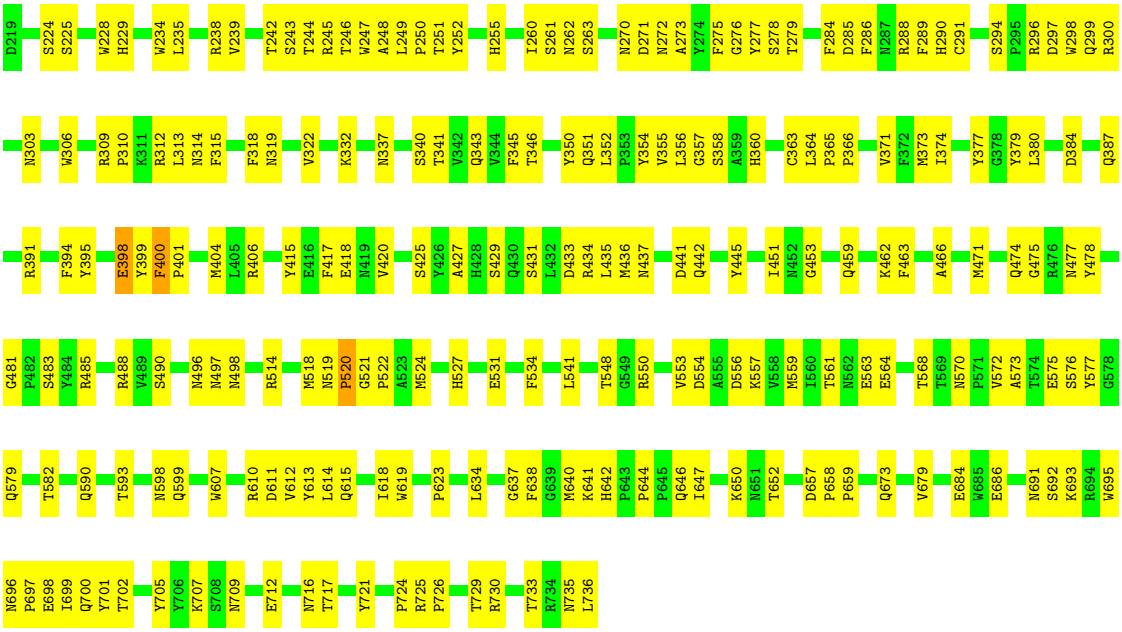
• Molecule 1: Capsid protein VP1

Chain T:



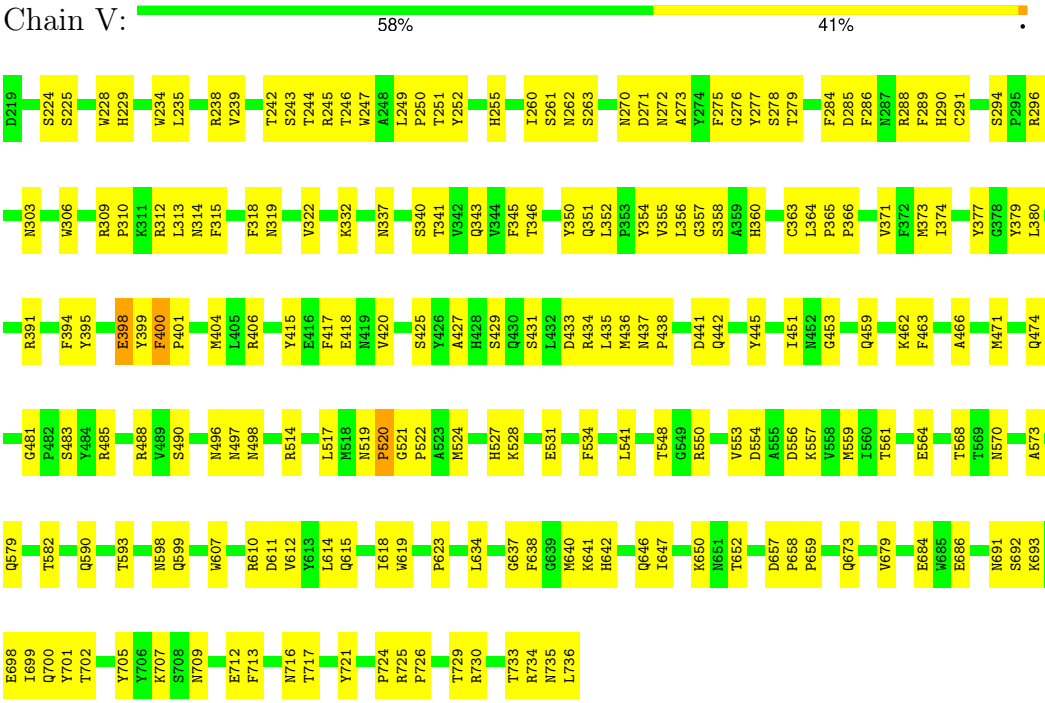
• Molecule 1: Capsid protein VP1

Chain U:



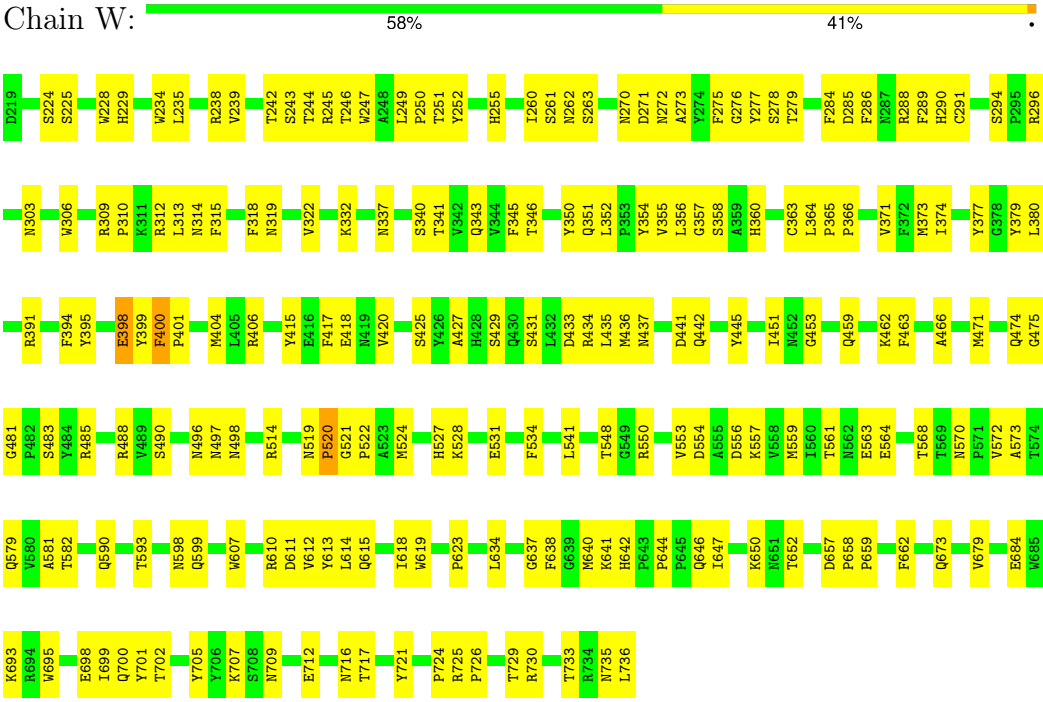
• Molecule 1: Capsid protein VP1

Chain V:



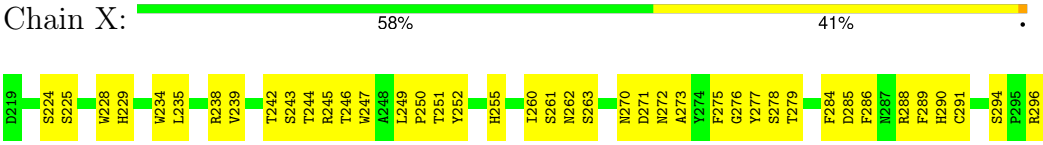
• Molecule 1: Capsid protein VP1

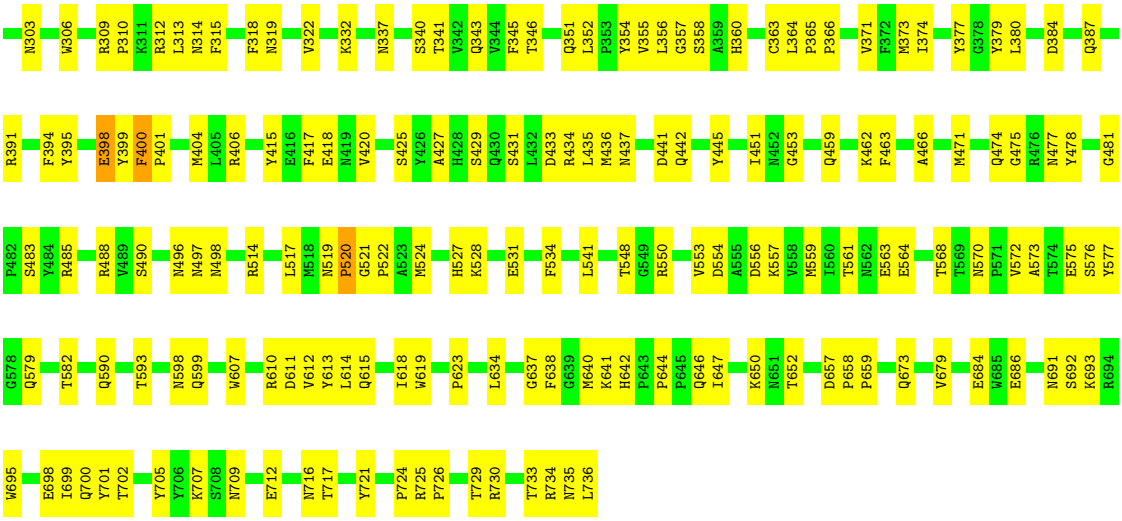
Chain W:



• Molecule 1: Capsid protein VP1

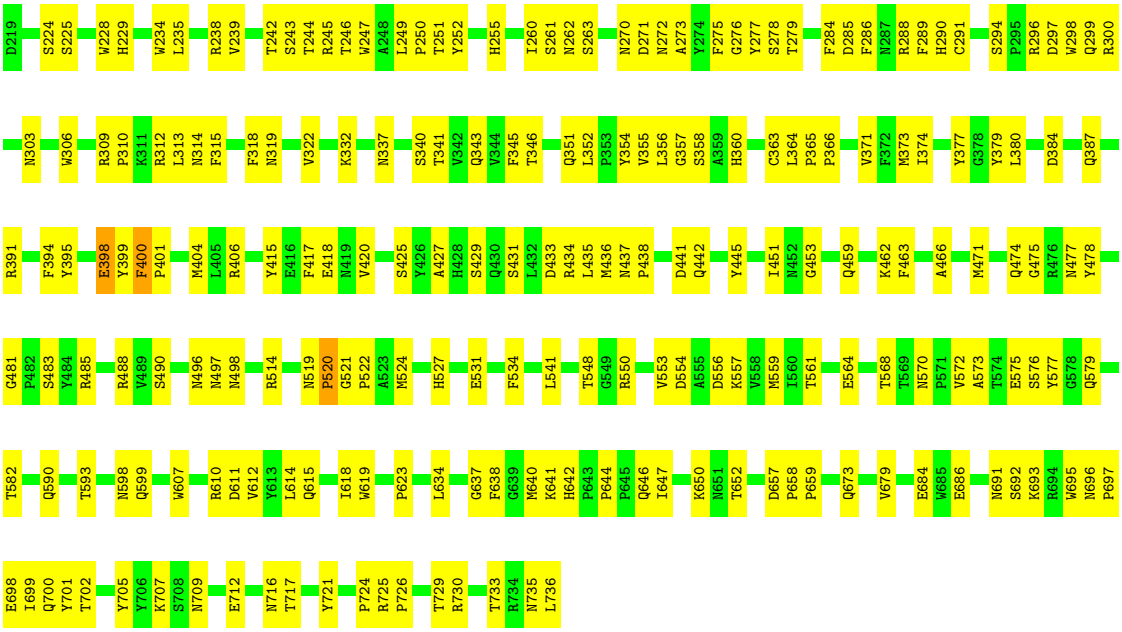
Chain X:





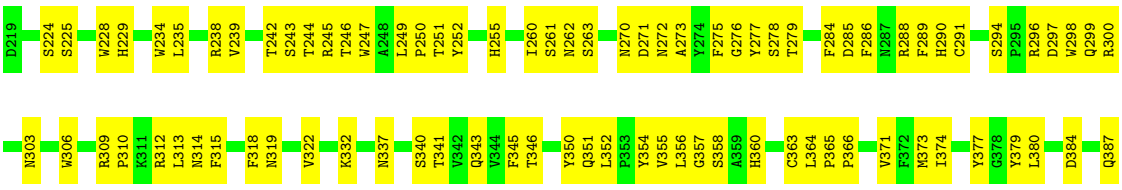
• Molecule 1: Capsid protein VP1

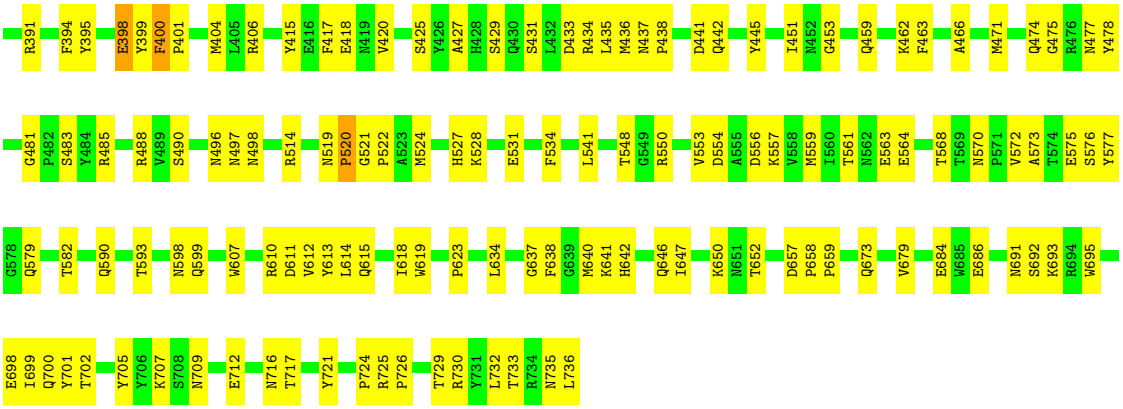
Chain Y:



• Molecule 1: Capsid protein VP1

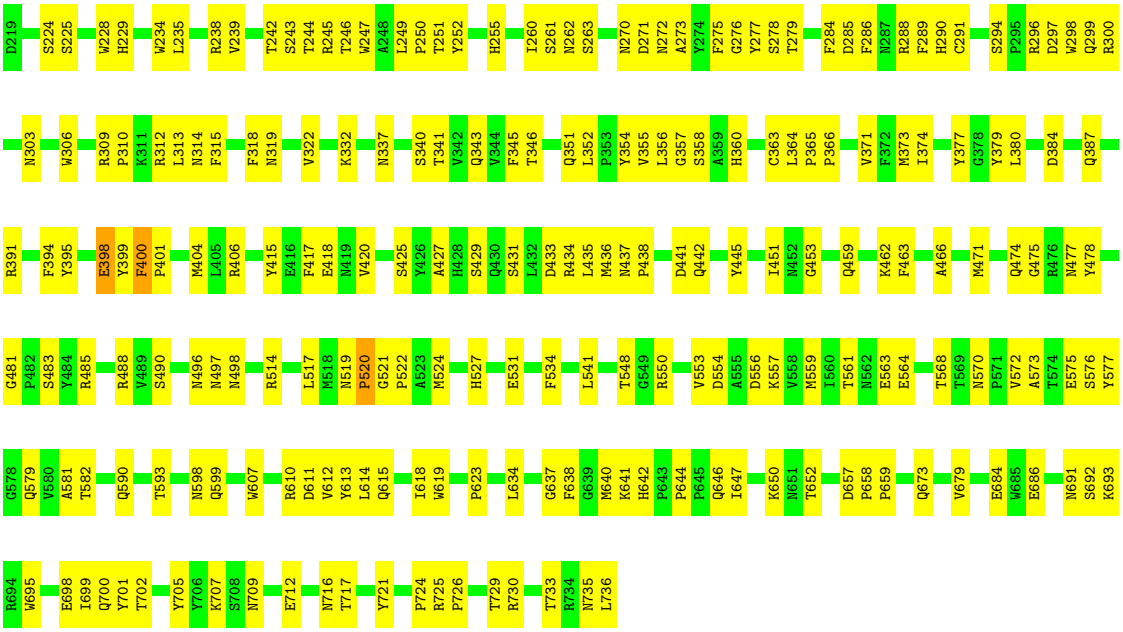
Chain Z:





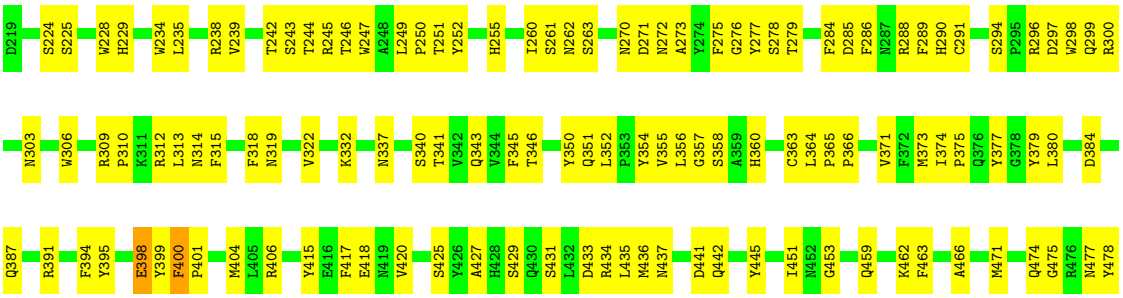
• Molecule 1: Capsid protein VP1

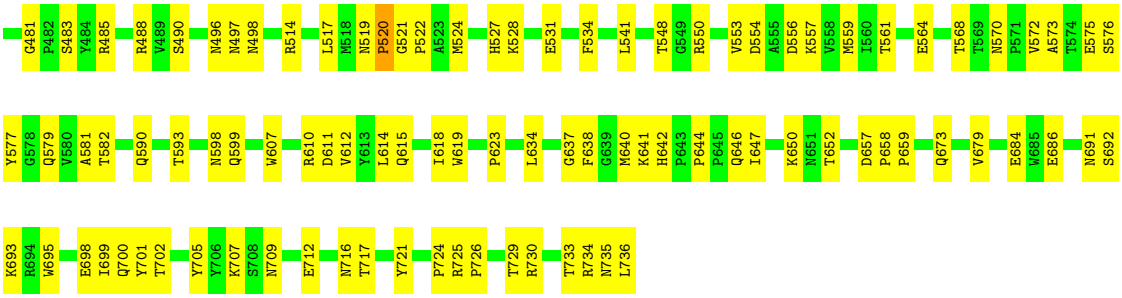
Chain 1:



• Molecule 1: Capsid protein VP1

Chain 2:





• Molecule 1: Capsid protein VP1

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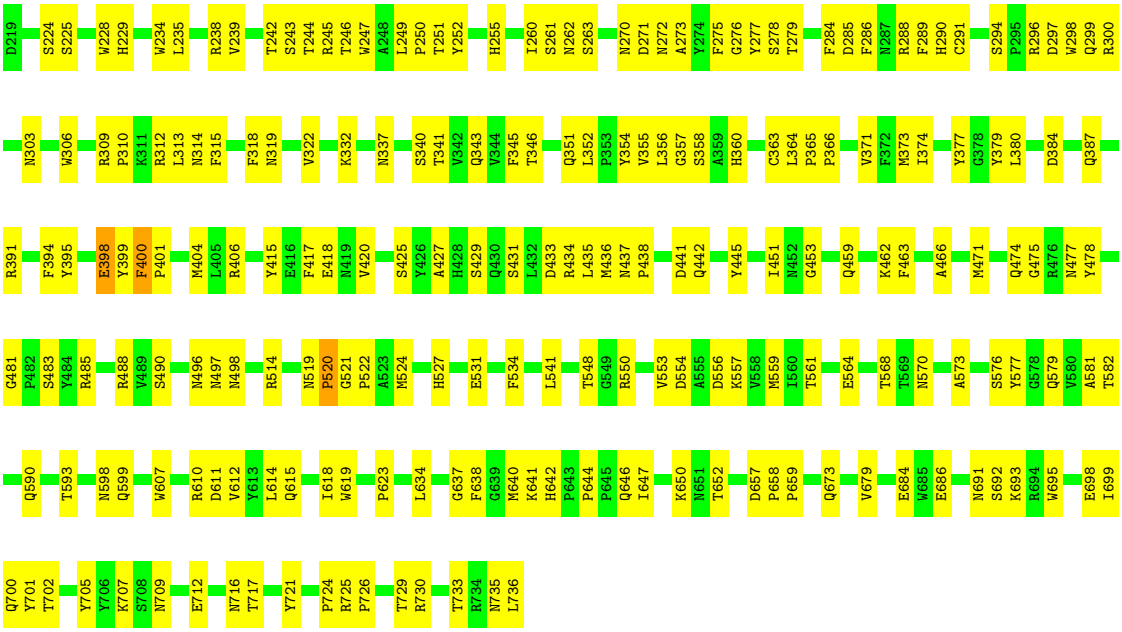
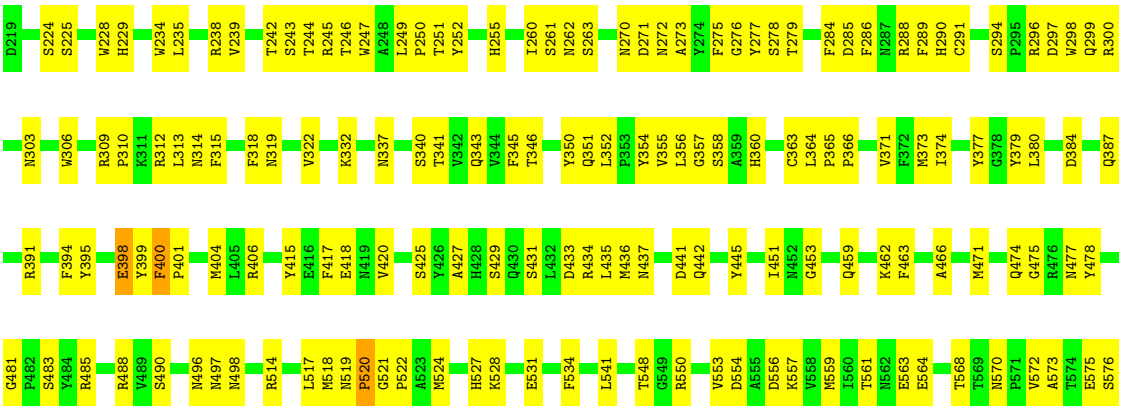
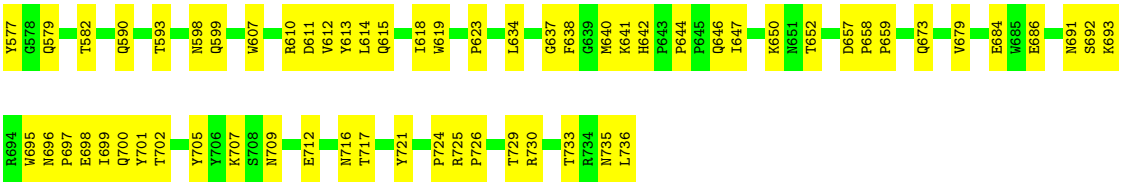


• Molecule 1: Capsid protein VP1

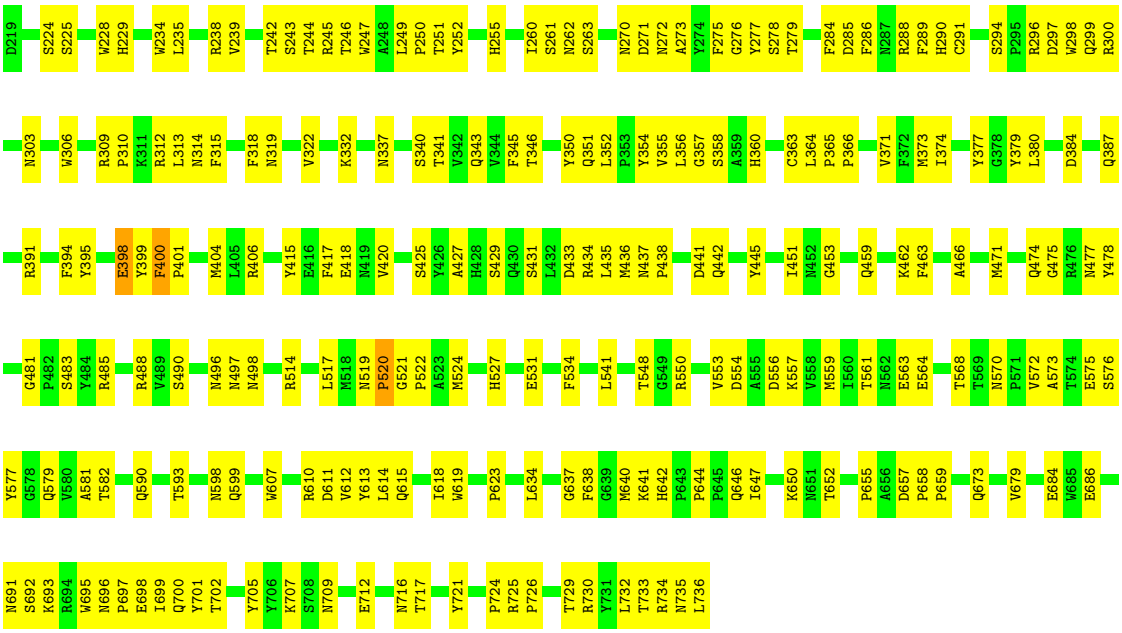
Chain 4:





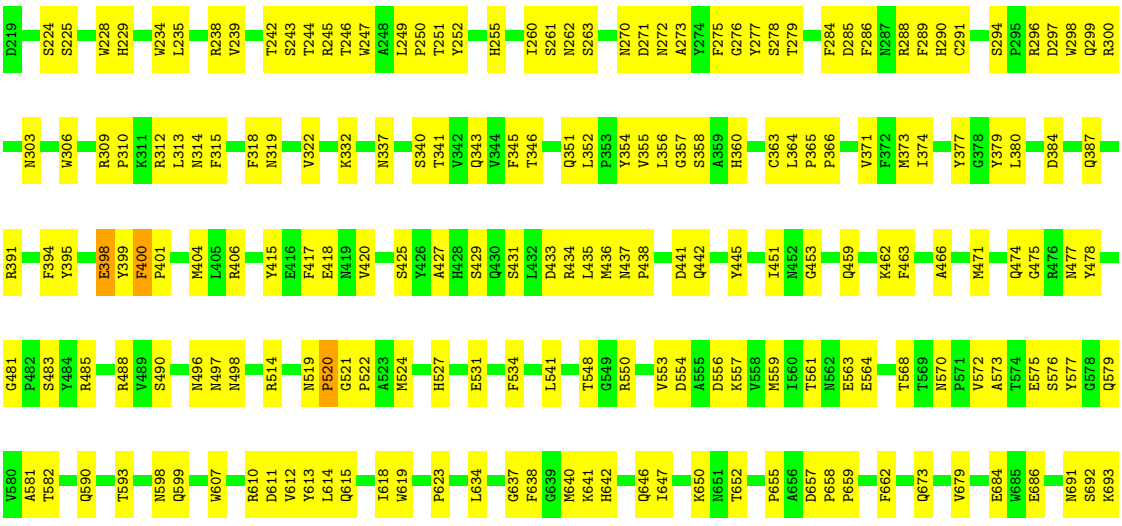
• Molecule 1: Capsid protein VP1

Chain 5:



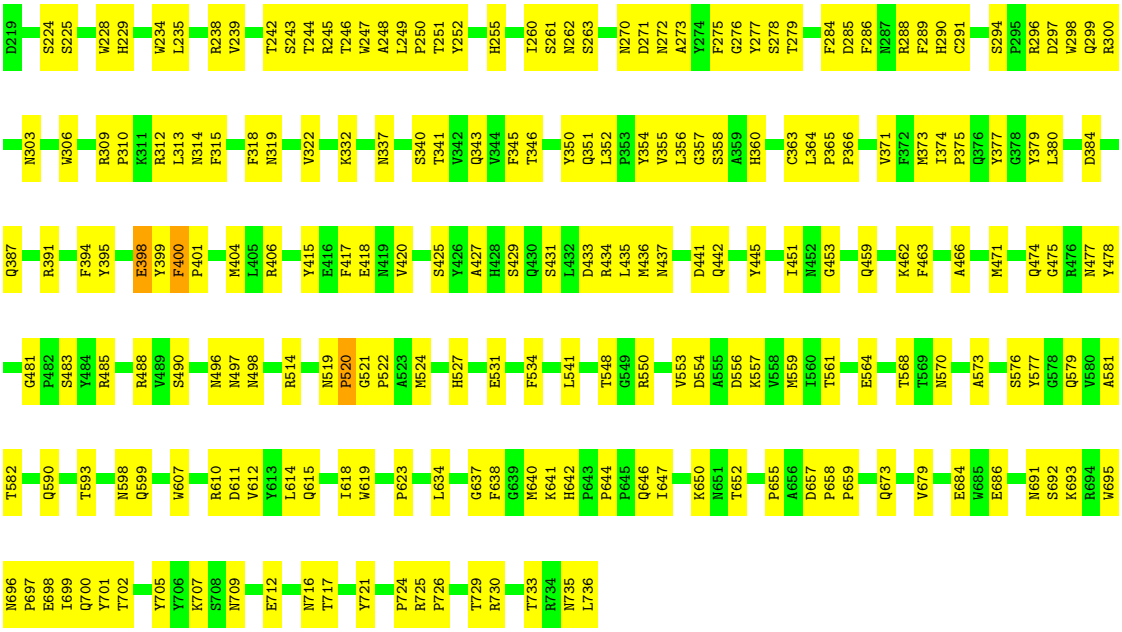
• Molecule 1: Capsid protein VP1

Chain 6:



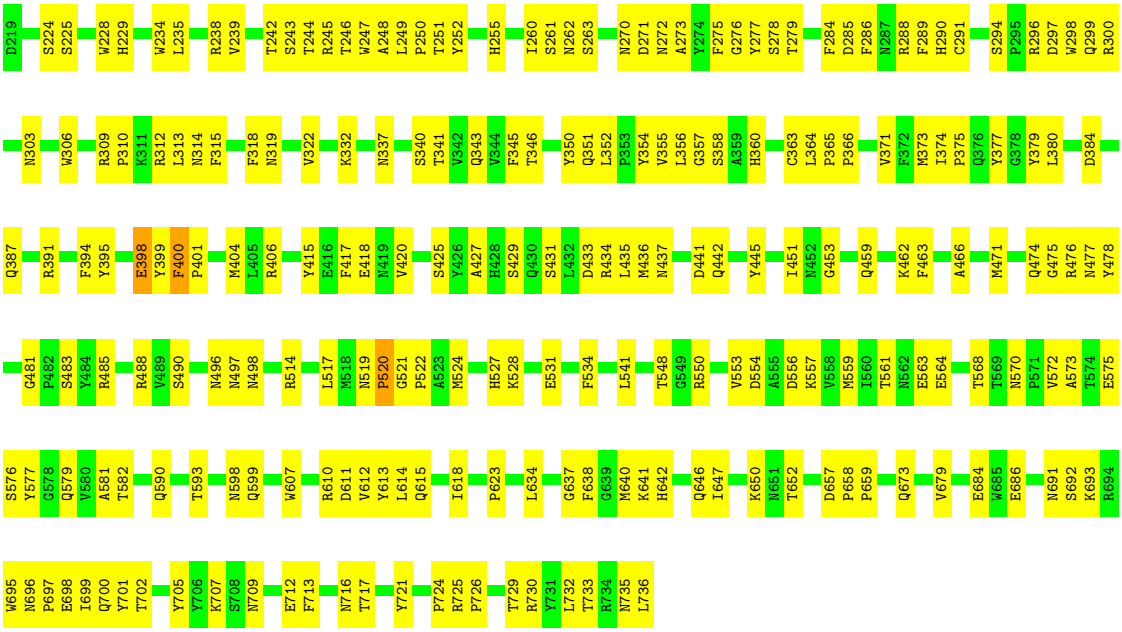
• Molecule 1: Capsid protein VP1

Chain a:



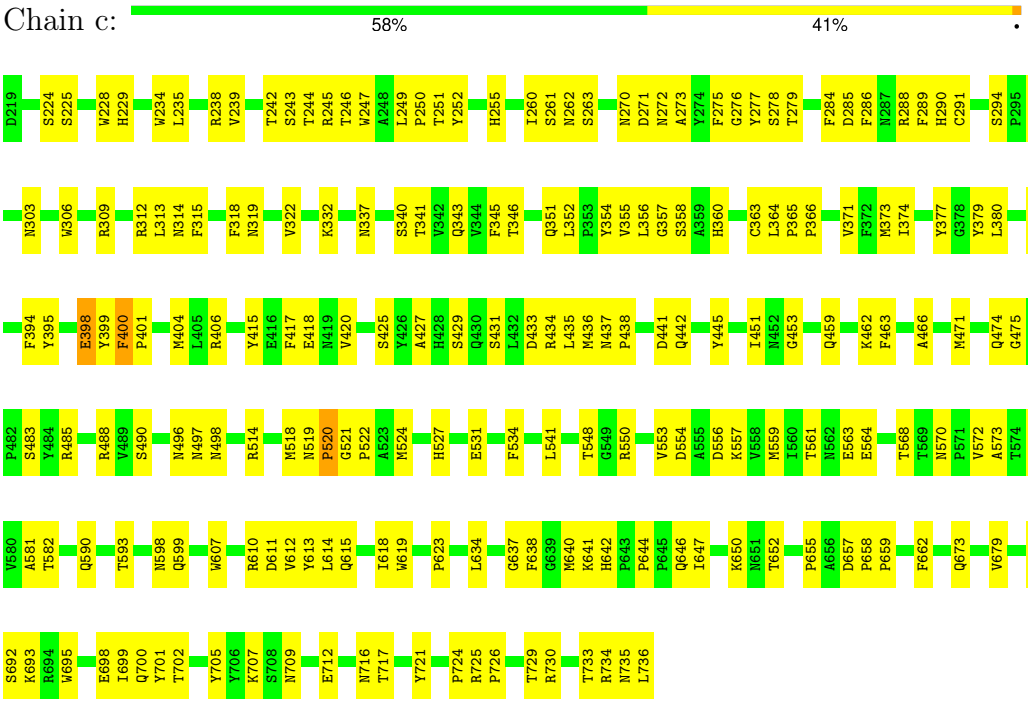
• Molecule 1: Capsid protein VP1

Chain b:



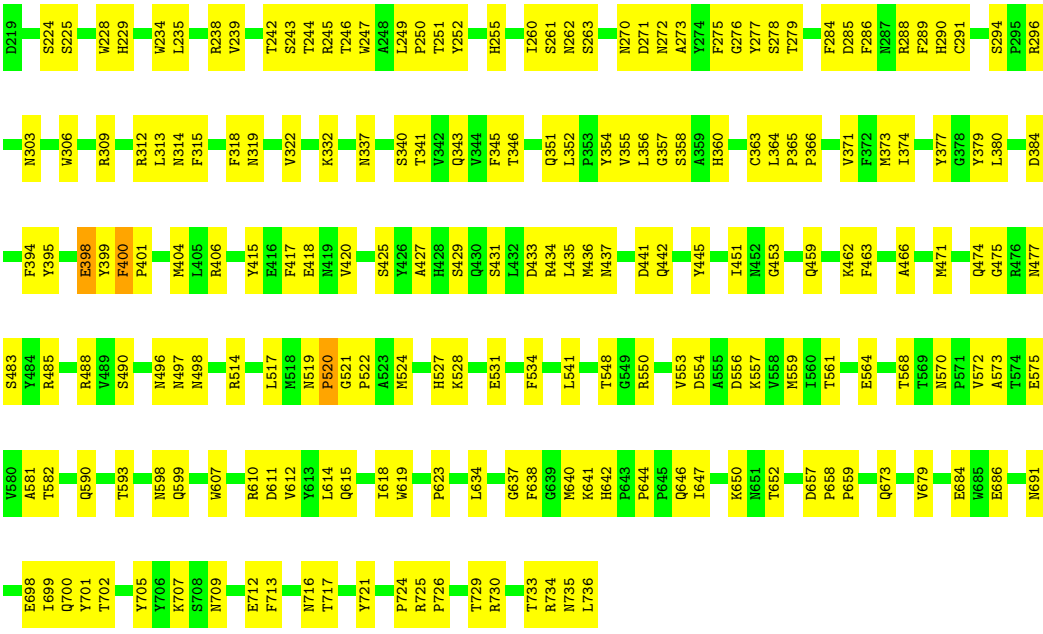
• Molecule 1: Capsid protein VP1

Chain c:



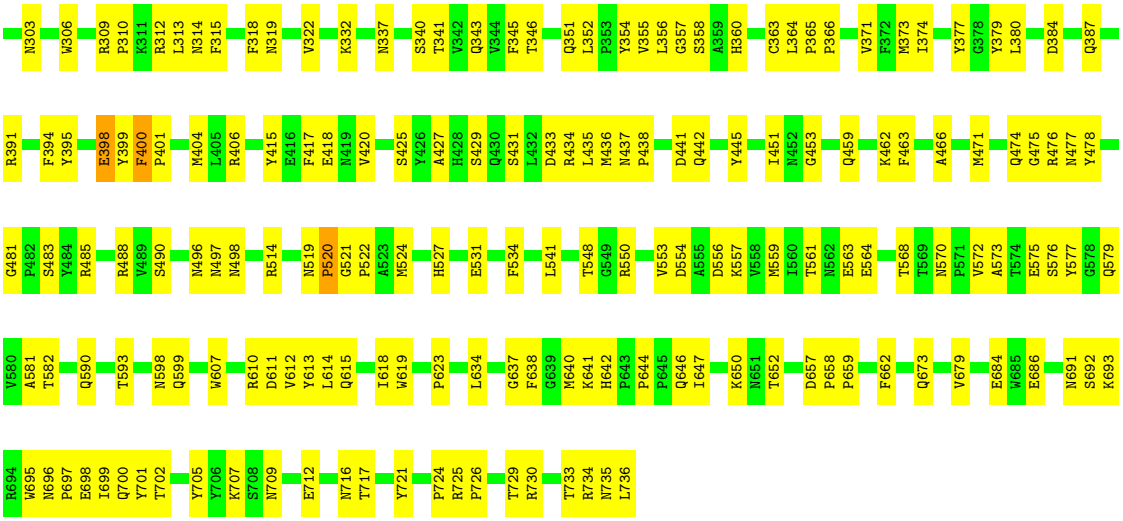
• Molecule 1: Capsid protein VP1

Chain d:



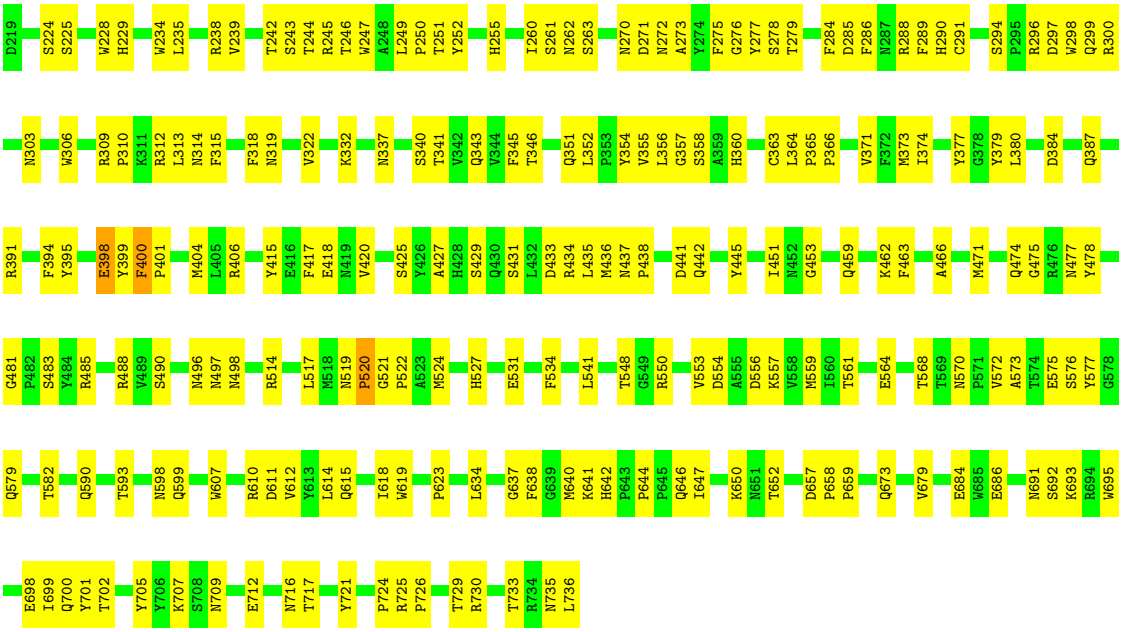
• Molecule 1: Capsid protein VP1

Chain e:



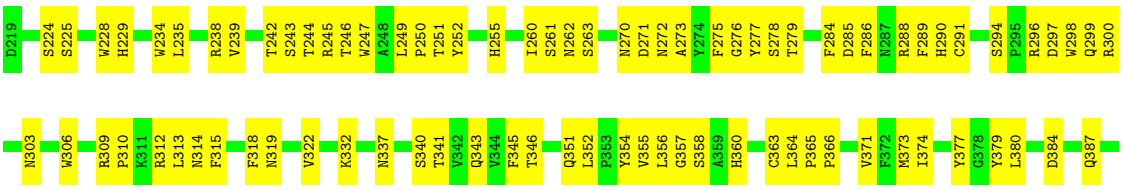
• Molecule 1: Capsid protein VP1

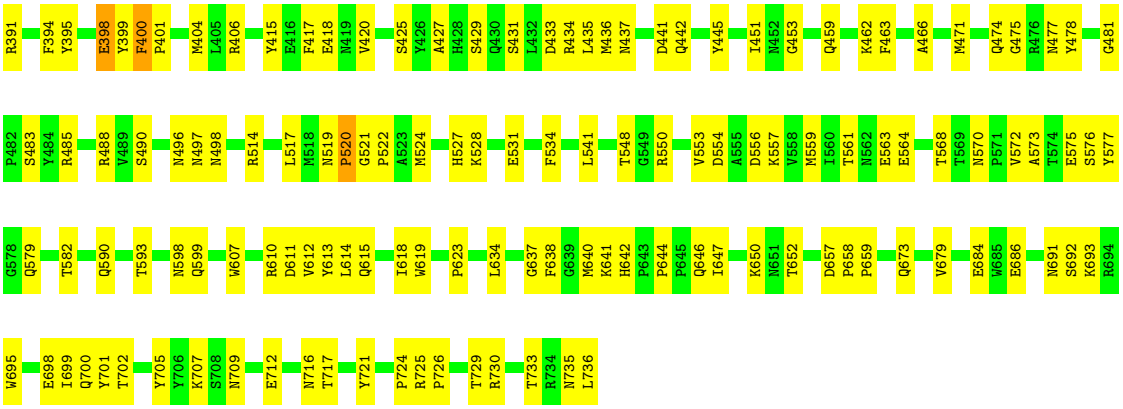
Chain f:



• Molecule 1: Capsid protein VP1

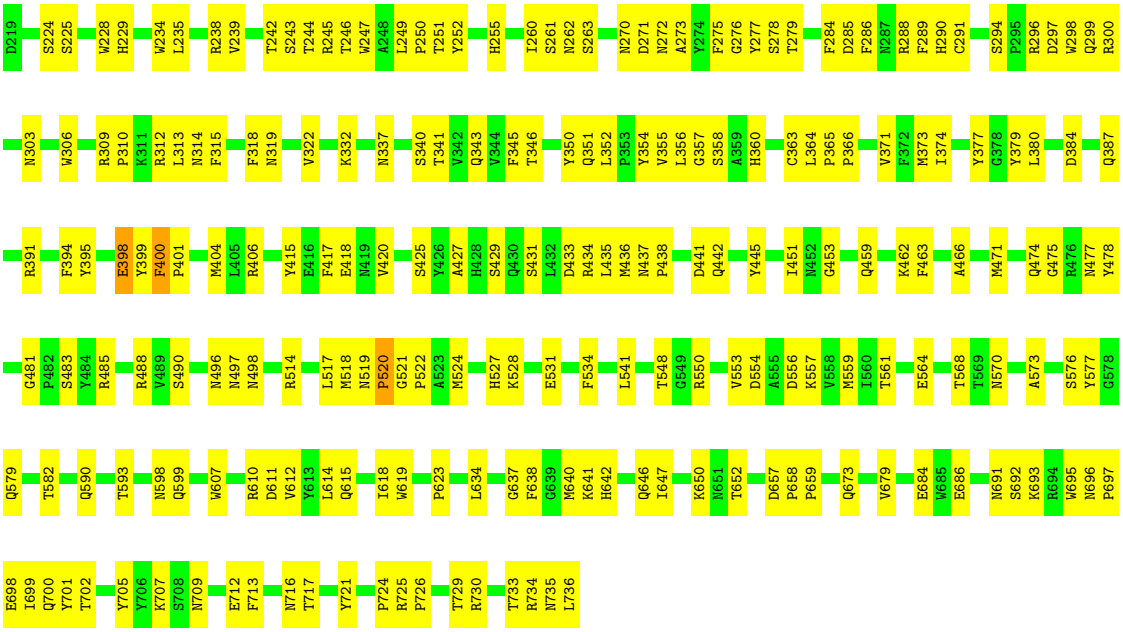
Chain g:





• Molecule 1: Capsid protein VP1

Chain h:

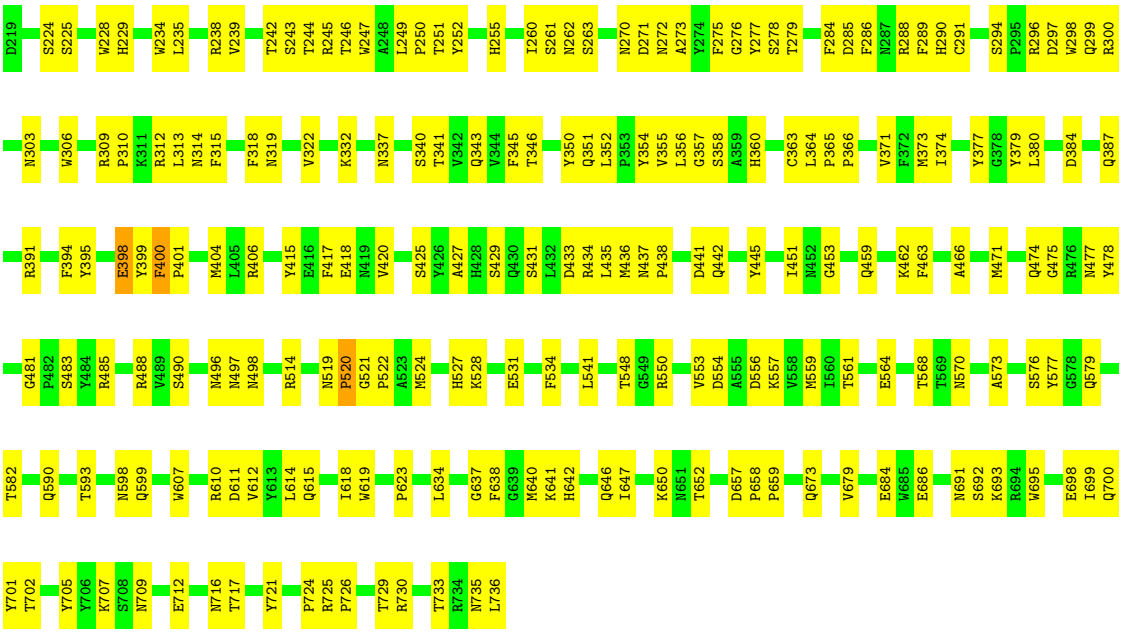


• Molecule 1: Capsid protein VP1

Chain i:

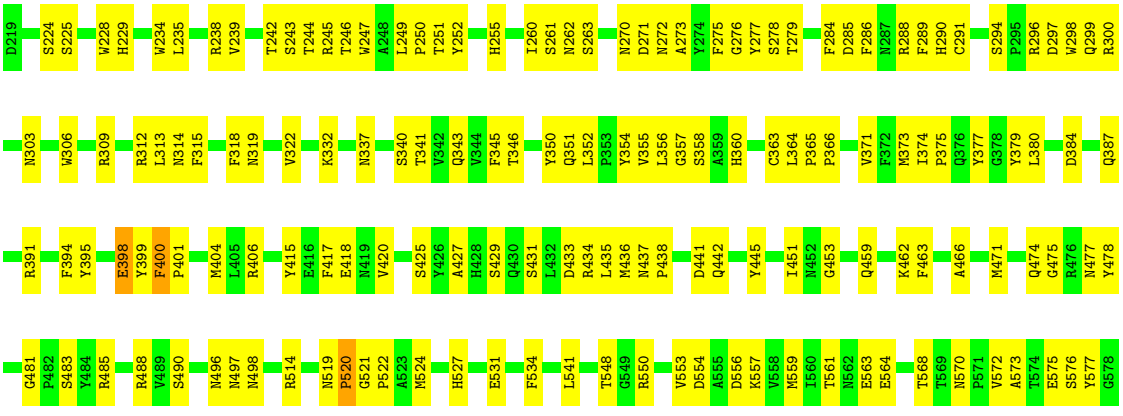
• Molecule 1: Capsid protein VP1

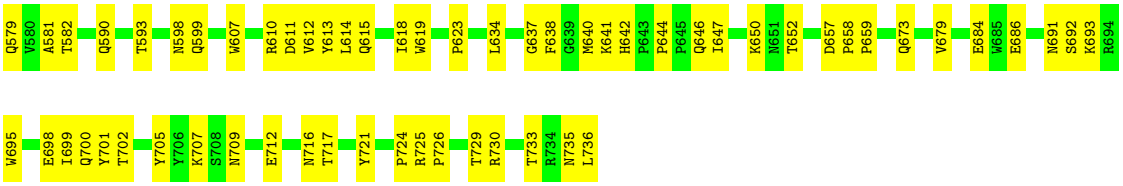
Chain j:



• Molecule 1: Capsid protein VP1

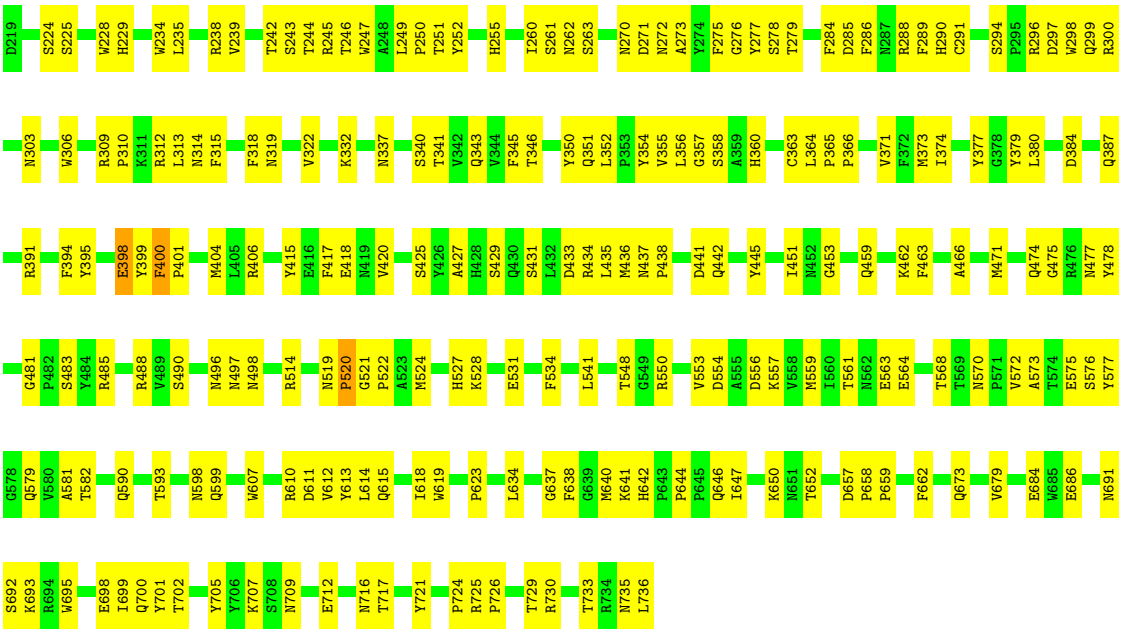
Chain k:





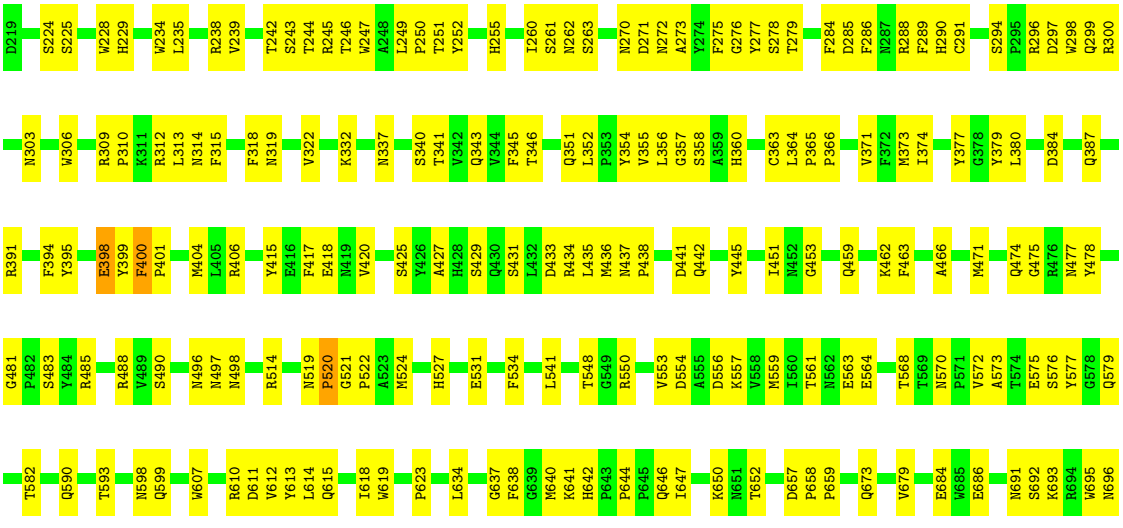
• Molecule 1: Capsid protein VP1

Chain l:



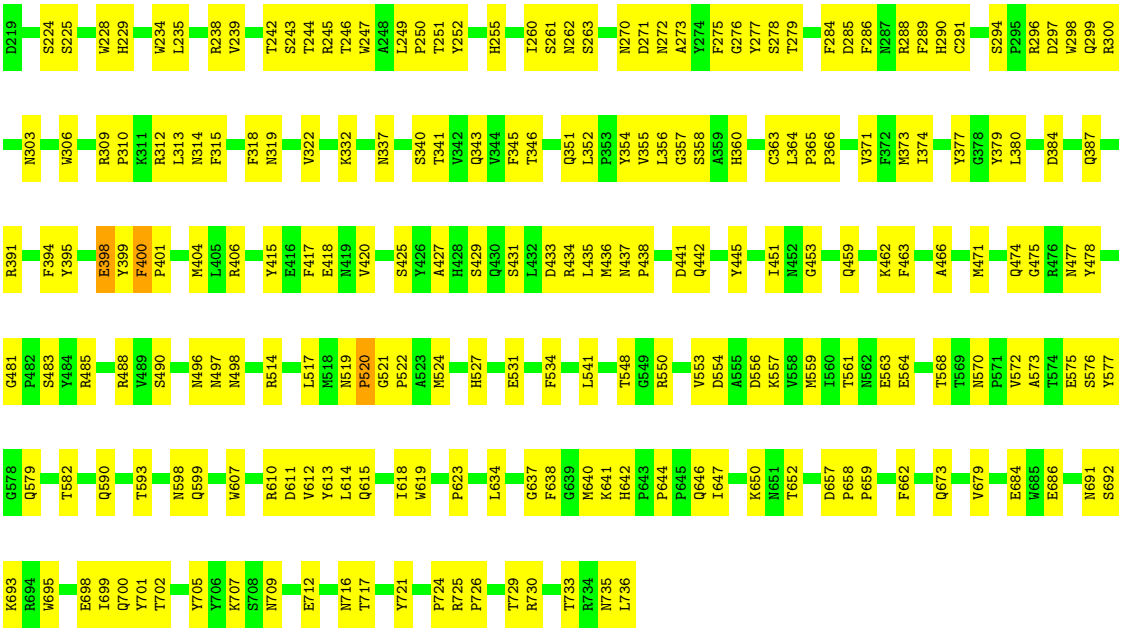
• Molecule 1: Capsid protein VP1

Chain m:



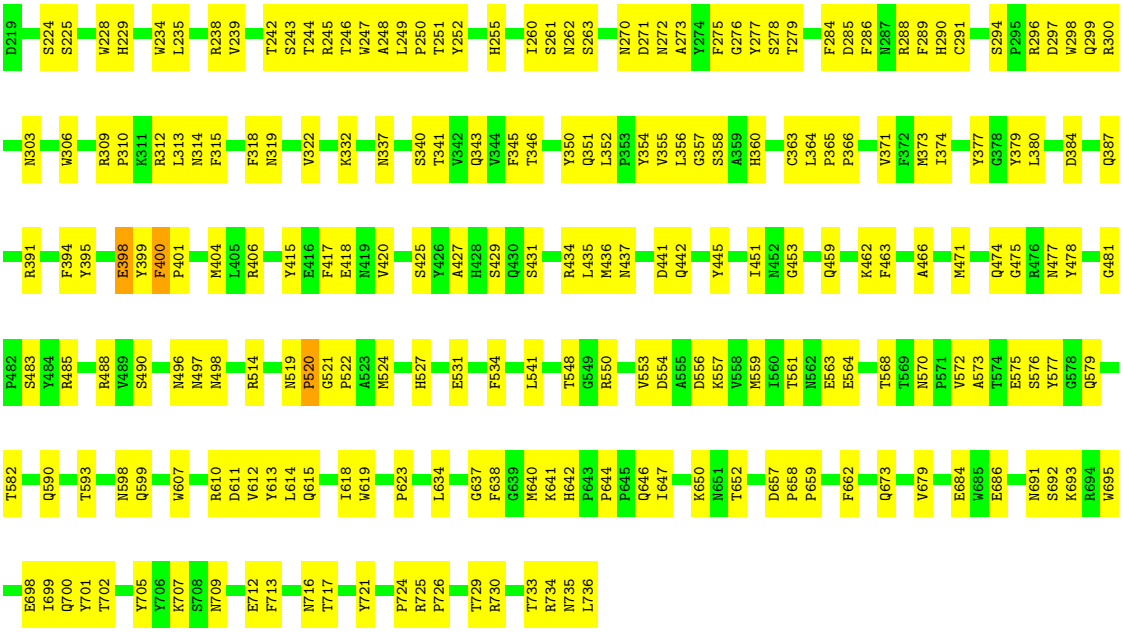
• Molecule 1: Capsid protein VP1

Chain n:



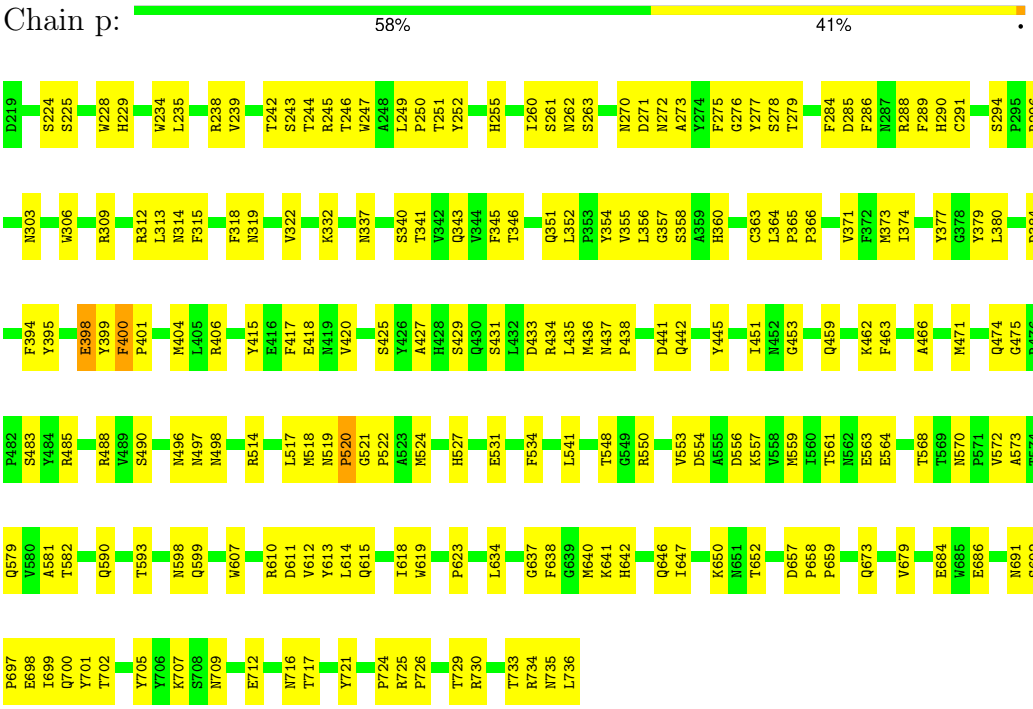
• Molecule 1: Capsid protein VP1

Chain o:



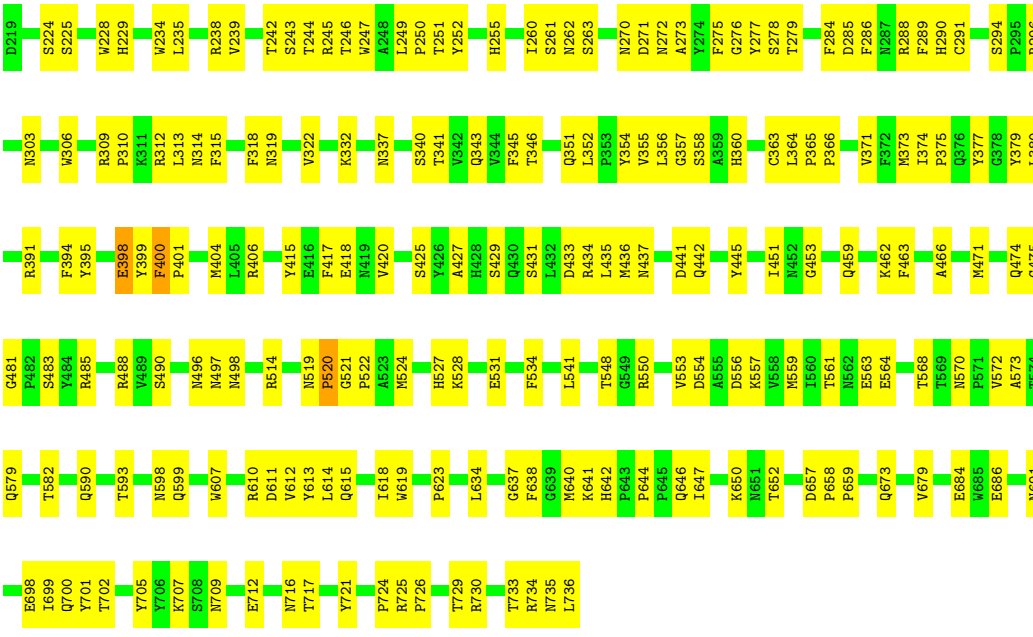
• Molecule 1: Capsid protein VP1

Chain p:



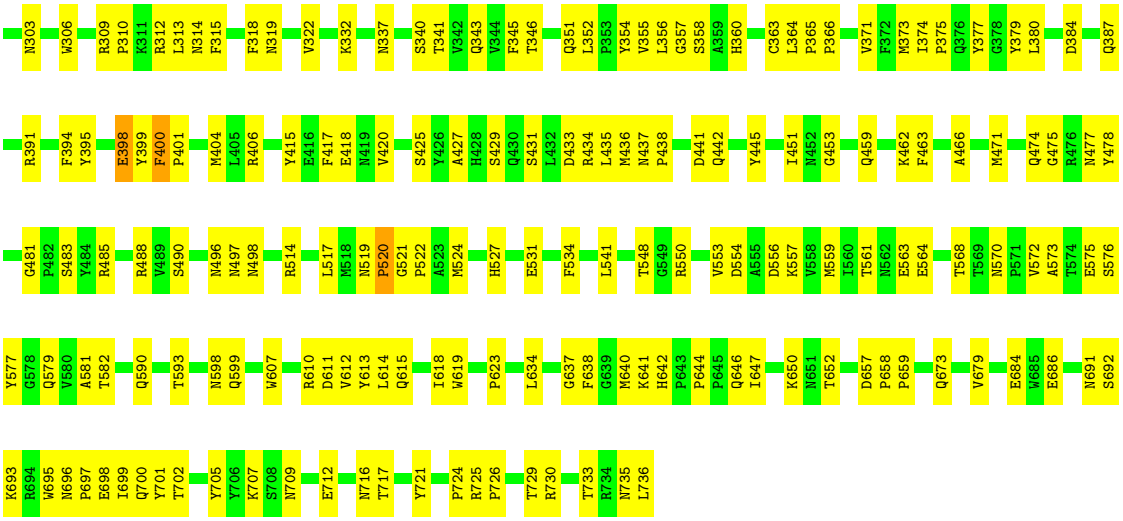
• Molecule 1: Capsid protein VP1

Chain q:



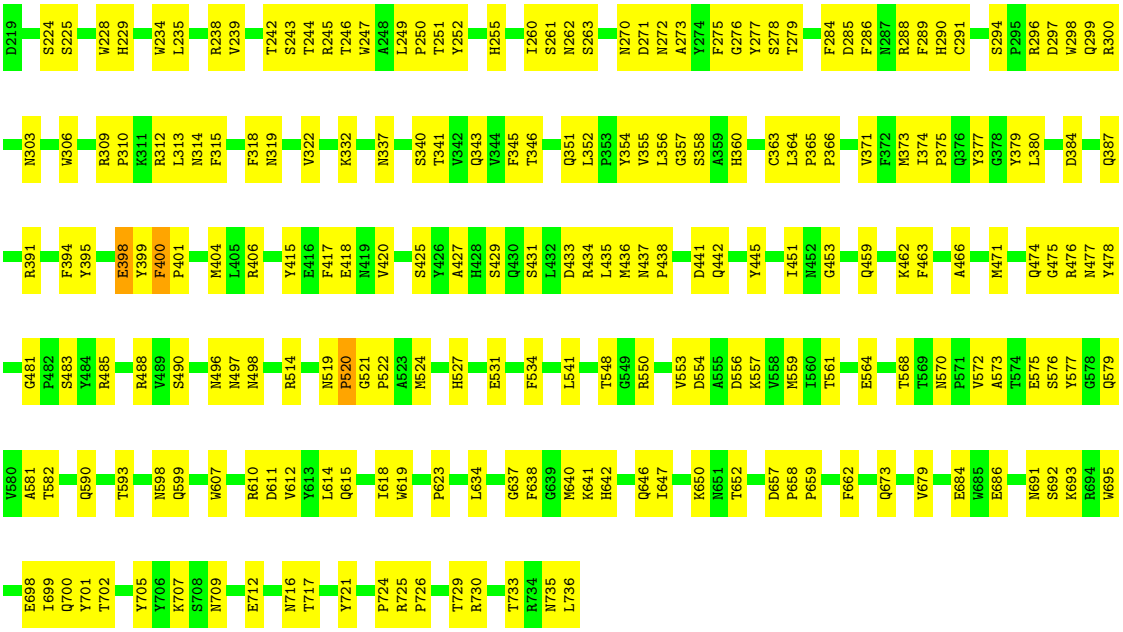
• Molecule 1: Capsid protein VP1

Chain r:



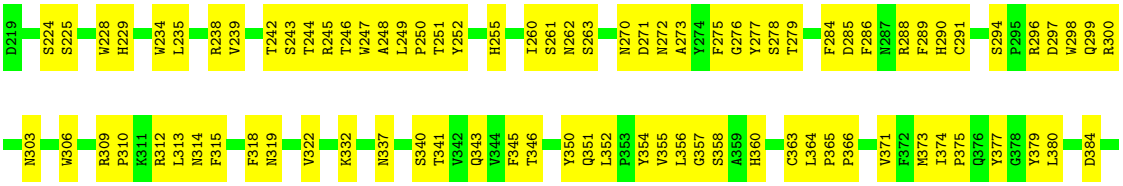
• Molecule 1: Capsid protein VP1

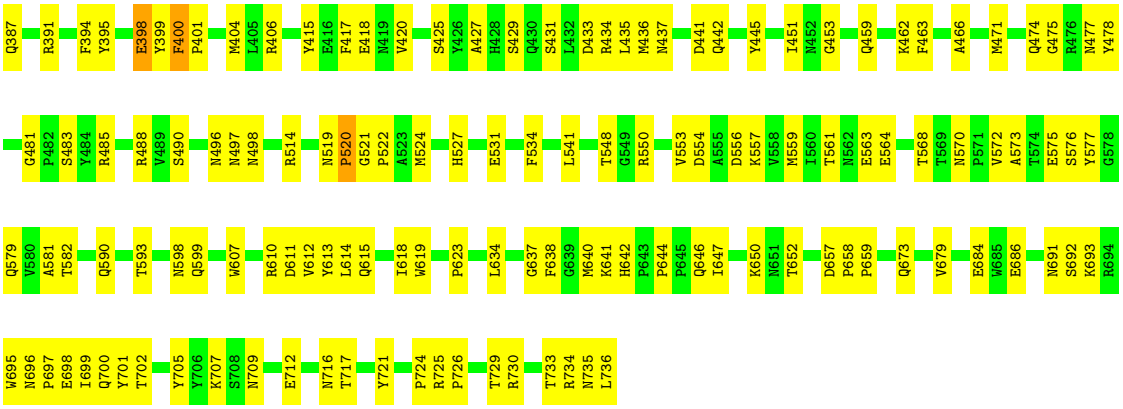
Chain s:



• Molecule 1: Capsid protein VP1

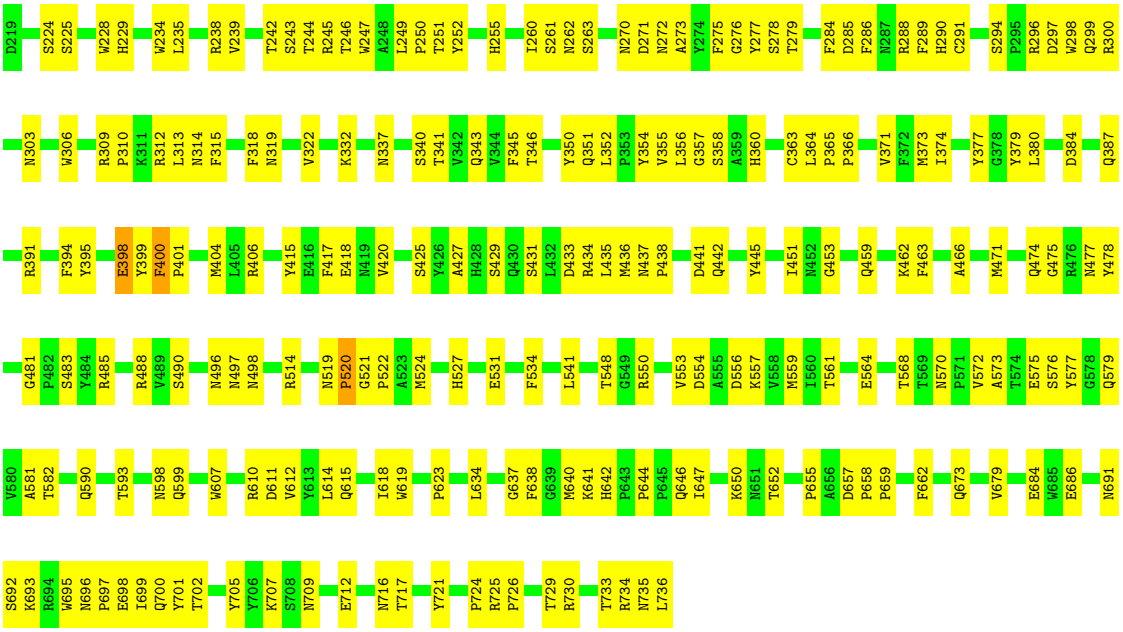
Chain t:





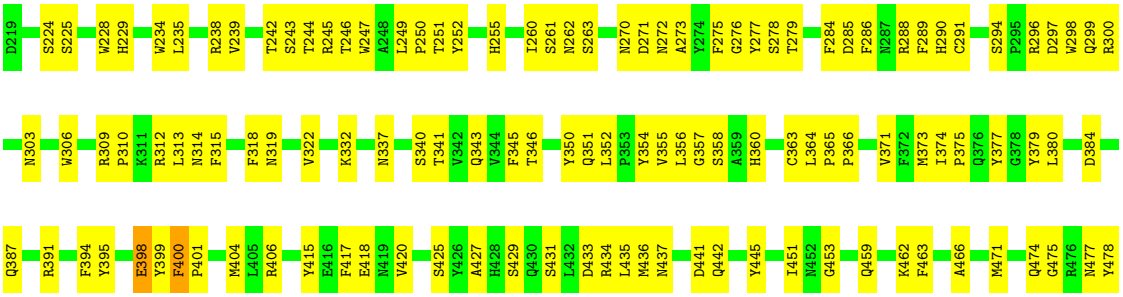
• Molecule 1: Capsid protein VP1

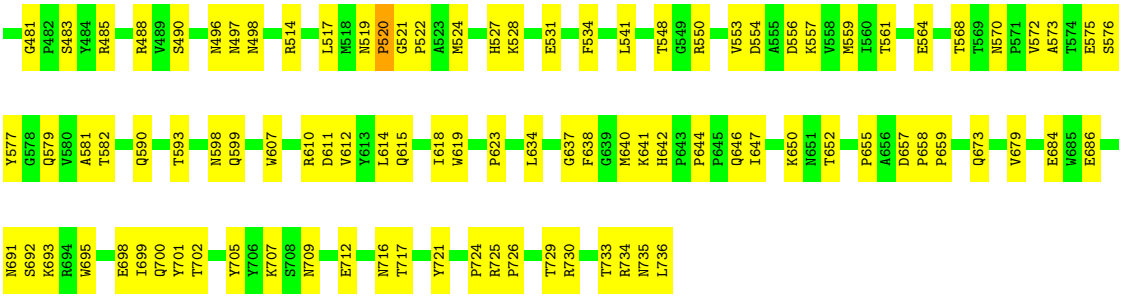
Chain u:



• Molecule 1: Capsid protein VP1

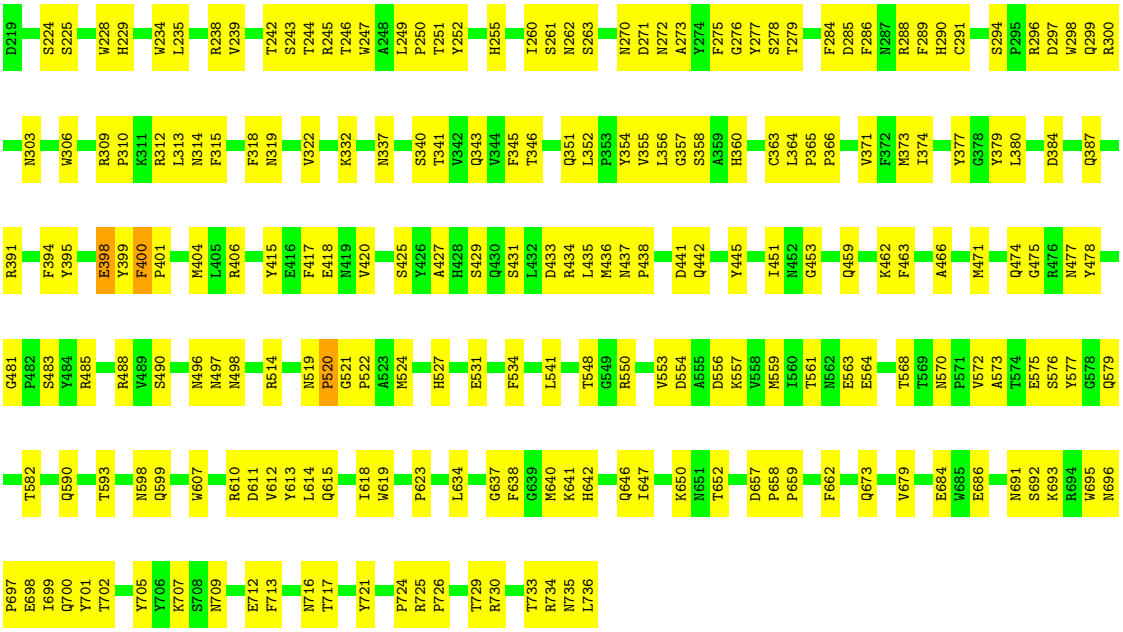
Chain v:





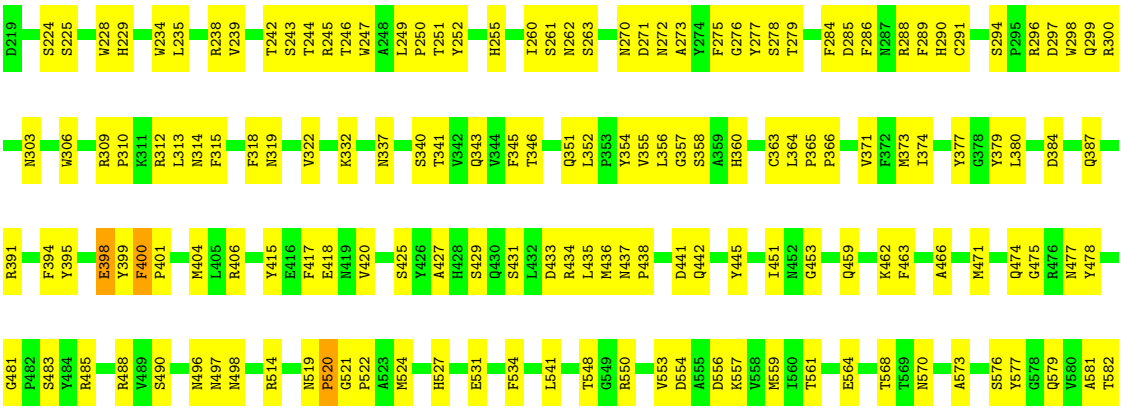
• Molecule 1: Capsid protein VP1

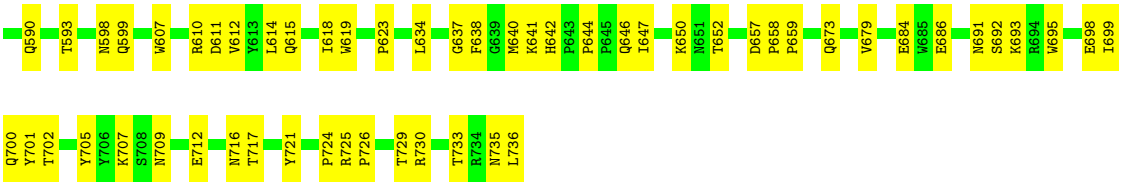
Chain w:



• Molecule 1: Capsid protein VP1

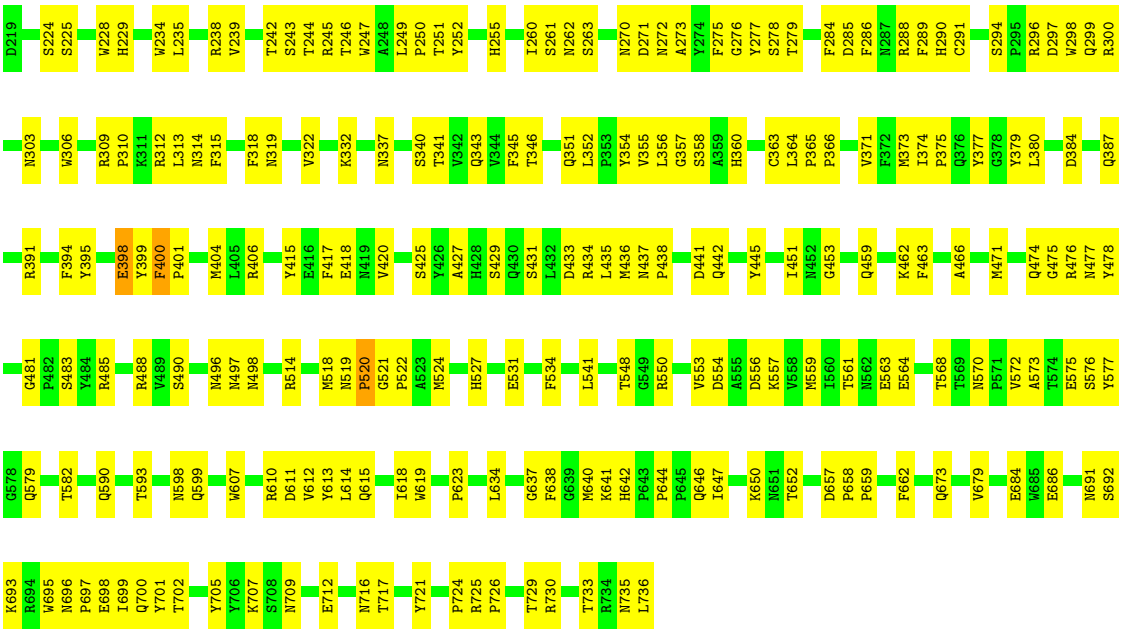
Chain x:





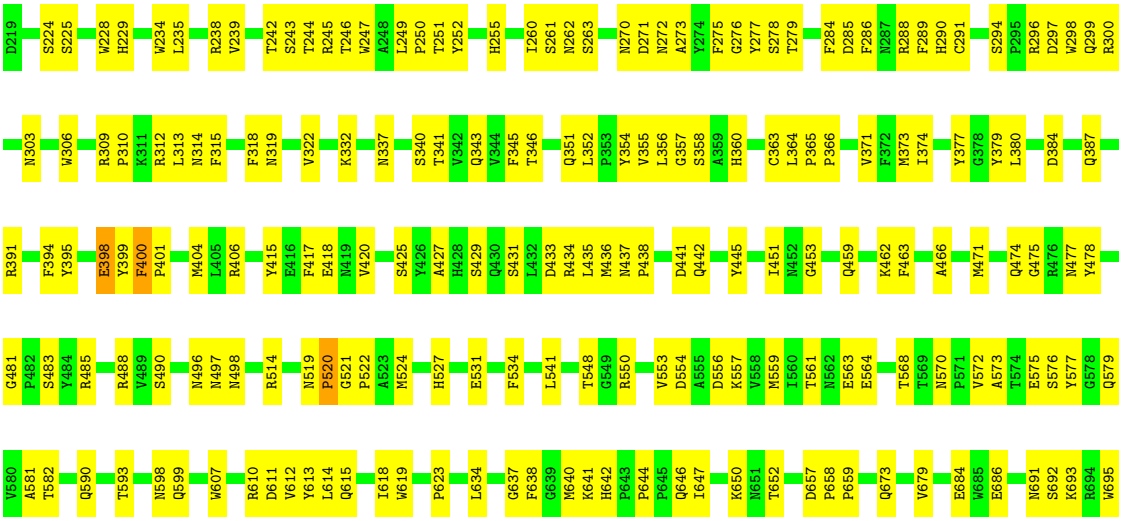
• Molecule 1: Capsid protein VP1

Chain y:



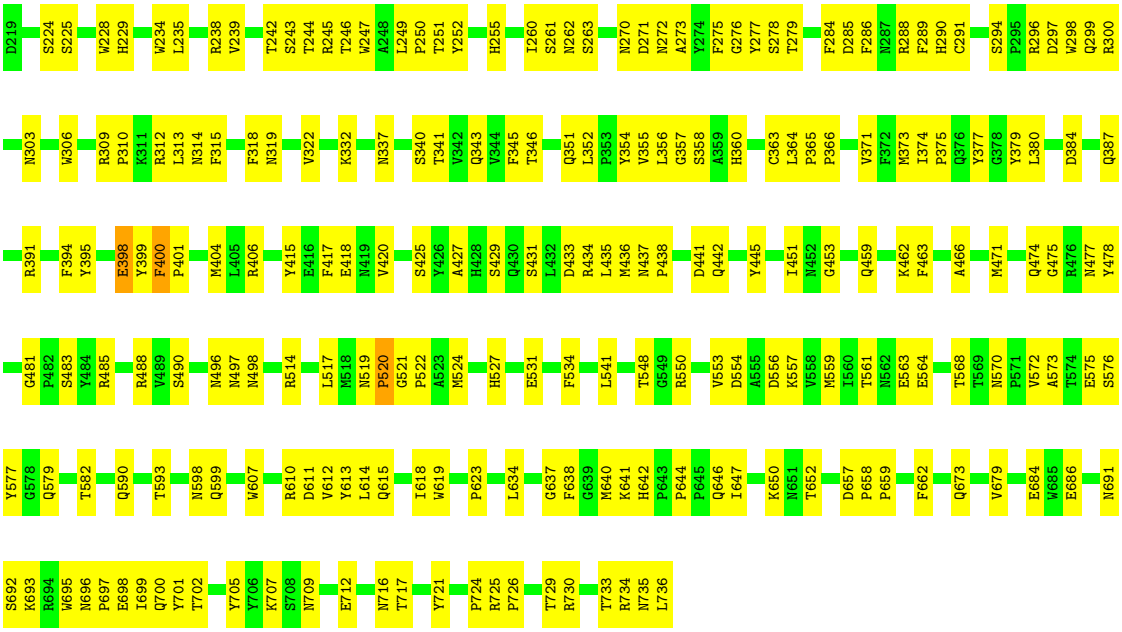
• Molecule 1: Capsid protein VP1

Chain z:



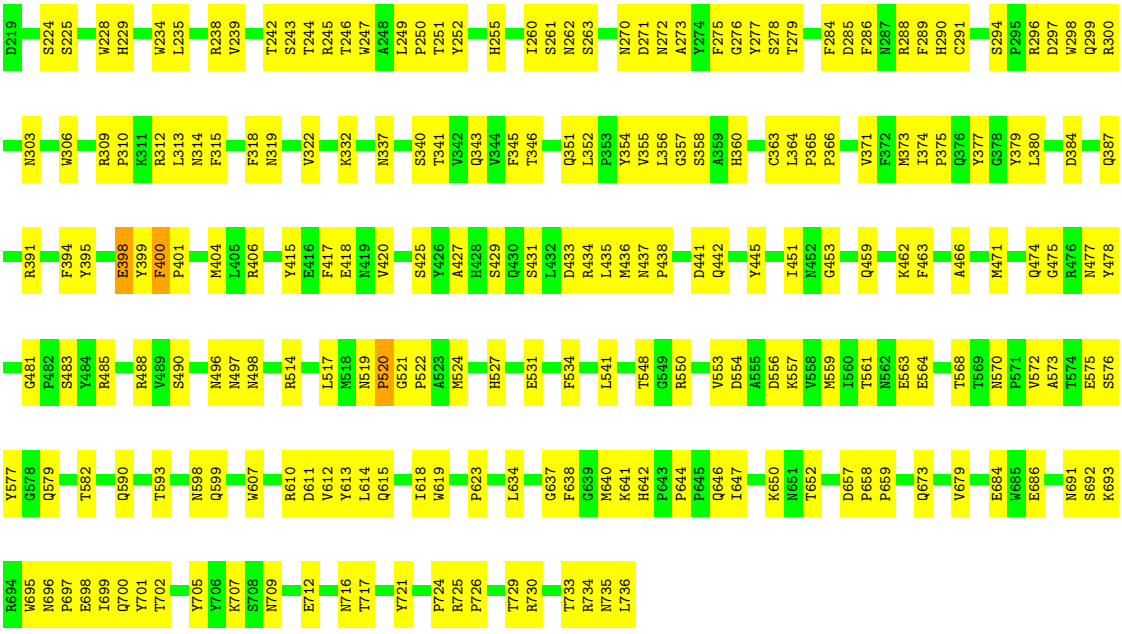
• Molecule 1: Capsid protein VP1

Chain 7:



• Molecule 1: Capsid protein VP1

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	150469	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	17.699	Depositor
Minimum map value	-9.359	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	390.574, 390.574, 390.574	wwPDB
Map dimensions	401, 401, 401	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.97400004, 0.97400004, 0.97400004	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	1	0.46	0/4256	0.56	1/5800 (0.0%)
1	2	0.46	0/4256	0.56	1/5800 (0.0%)
1	3	0.46	0/4256	0.56	1/5800 (0.0%)
1	4	0.46	0/4256	0.56	2/5800 (0.0%)
1	5	0.46	0/4256	0.56	1/5800 (0.0%)
1	6	0.46	0/4256	0.56	1/5800 (0.0%)
1	7	0.46	0/4256	0.56	1/5800 (0.0%)
1	8	0.46	0/4256	0.56	1/5800 (0.0%)
1	A	0.46	0/4256	0.56	1/5800 (0.0%)
1	B	0.46	0/4256	0.56	1/5800 (0.0%)
1	C	0.46	0/4256	0.56	1/5800 (0.0%)
1	D	0.46	0/4256	0.56	2/5800 (0.0%)
1	E	0.46	0/4256	0.56	1/5800 (0.0%)
1	F	0.46	0/4256	0.56	1/5800 (0.0%)
1	G	0.46	0/4256	0.56	1/5800 (0.0%)
1	H	0.46	0/4256	0.56	1/5800 (0.0%)
1	I	0.46	0/4256	0.56	1/5800 (0.0%)
1	J	0.46	0/4256	0.56	2/5800 (0.0%)
1	K	0.46	0/4256	0.56	2/5800 (0.0%)
1	L	0.46	0/4256	0.56	2/5800 (0.0%)
1	M	0.46	0/4256	0.56	2/5800 (0.0%)
1	N	0.46	0/4256	0.56	2/5800 (0.0%)
1	O	0.46	0/4256	0.56	2/5800 (0.0%)
1	P	0.46	0/4256	0.56	1/5800 (0.0%)
1	Q	0.46	0/4256	0.56	1/5800 (0.0%)
1	R	0.46	0/4256	0.56	1/5800 (0.0%)
1	S	0.46	0/4256	0.56	1/5800 (0.0%)
1	T	0.46	0/4256	0.56	1/5800 (0.0%)
1	U	0.46	0/4256	0.56	2/5800 (0.0%)
1	V	0.46	0/4256	0.56	1/5800 (0.0%)
1	W	0.46	0/4256	0.56	1/5800 (0.0%)
1	X	0.46	0/4256	0.56	1/5800 (0.0%)
1	Y	0.46	0/4256	0.56	1/5800 (0.0%)
1	Z	0.46	0/4256	0.56	1/5800 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.46	0/4256	0.56	1/5800 (0.0%)
1	b	0.46	0/4256	0.56	1/5800 (0.0%)
1	c	0.46	0/4256	0.56	2/5800 (0.0%)
1	d	0.46	0/4256	0.56	1/5800 (0.0%)
1	e	0.46	0/4256	0.56	1/5800 (0.0%)
1	f	0.46	0/4256	0.56	1/5800 (0.0%)
1	g	0.46	0/4256	0.56	1/5800 (0.0%)
1	h	0.46	0/4256	0.56	2/5800 (0.0%)
1	i	0.46	0/4256	0.56	1/5800 (0.0%)
1	j	0.46	0/4256	0.56	1/5800 (0.0%)
1	k	0.46	0/4256	0.56	1/5800 (0.0%)
1	l	0.46	0/4256	0.56	1/5800 (0.0%)
1	m	0.46	0/4256	0.56	1/5800 (0.0%)
1	n	0.46	0/4256	0.56	1/5800 (0.0%)
1	o	0.46	0/4256	0.56	1/5800 (0.0%)
1	p	0.46	0/4256	0.56	2/5800 (0.0%)
1	q	0.46	0/4256	0.56	1/5800 (0.0%)
1	r	0.46	0/4256	0.56	1/5800 (0.0%)
1	s	0.46	0/4256	0.56	1/5800 (0.0%)
1	t	0.46	0/4256	0.56	1/5800 (0.0%)
1	u	0.46	0/4256	0.56	1/5800 (0.0%)
1	v	0.46	0/4256	0.56	1/5800 (0.0%)
1	w	0.46	0/4256	0.56	1/5800 (0.0%)
1	x	0.46	0/4256	0.56	1/5800 (0.0%)
1	y	0.46	0/4256	0.56	2/5800 (0.0%)
1	z	0.46	0/4256	0.56	1/5800 (0.0%)
All	All	0.46	0/255360	0.56	73/348000 (0.0%)

There are no bond length outliers.

All (73) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	398	GLU	N-CA-C	5.67	119.45	112.54
1	U	398	GLU	N-CA-C	5.67	119.45	112.54
1	4	398	GLU	N-CA-C	5.67	119.45	112.54
1	m	398	GLU	N-CA-C	5.66	119.45	112.54
1	q	398	GLU	N-CA-C	5.66	119.45	112.54
1	x	398	GLU	N-CA-C	5.66	119.44	112.54
1	I	398	GLU	N-CA-C	5.64	119.43	112.54
1	W	398	GLU	N-CA-C	5.64	119.43	112.54
1	s	398	GLU	N-CA-C	5.64	119.43	112.54
1	p	398	GLU	N-CA-C	5.64	119.42	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	398	GLU	N-CA-C	5.64	119.42	112.54
1	i	398	GLU	N-CA-C	5.64	119.42	112.54
1	L	398	GLU	N-CA-C	5.63	119.41	112.54
1	O	398	GLU	N-CA-C	5.63	119.41	112.54
1	o	398	GLU	N-CA-C	5.63	119.41	112.54
1	t	398	GLU	N-CA-C	5.63	119.42	112.54
1	Y	398	GLU	N-CA-C	5.63	119.41	112.54
1	e	398	GLU	N-CA-C	5.63	119.41	112.54
1	G	398	GLU	N-CA-C	5.63	119.41	112.54
1	T	398	GLU	N-CA-C	5.63	119.41	112.54
1	k	398	GLU	N-CA-C	5.63	119.41	112.54
1	l	398	GLU	N-CA-C	5.63	119.41	112.54
1	8	398	GLU	N-CA-C	5.63	119.41	112.54
1	E	398	GLU	N-CA-C	5.63	119.41	112.54
1	3	398	GLU	N-CA-C	5.63	119.41	112.54
1	1	398	GLU	N-CA-C	5.63	119.41	112.54
1	B	398	GLU	N-CA-C	5.63	119.40	112.54
1	b	398	GLU	N-CA-C	5.63	119.40	112.54
1	g	398	GLU	N-CA-C	5.63	119.40	112.54
1	A	398	GLU	N-CA-C	5.62	119.40	112.54
1	F	398	GLU	N-CA-C	5.62	119.40	112.54
1	R	398	GLU	N-CA-C	5.62	119.40	112.54
1	Z	398	GLU	N-CA-C	5.62	119.40	112.54
1	f	398	GLU	N-CA-C	5.62	119.40	112.54
1	j	398	GLU	N-CA-C	5.62	119.40	112.54
1	v	398	GLU	N-CA-C	5.62	119.40	112.54
1	z	398	GLU	N-CA-C	5.62	119.40	112.54
1	H	398	GLU	N-CA-C	5.62	119.39	112.54
1	D	398	GLU	N-CA-C	5.62	119.39	112.54
1	J	398	GLU	N-CA-C	5.62	119.39	112.54
1	M	398	GLU	N-CA-C	5.62	119.39	112.54
1	V	398	GLU	N-CA-C	5.62	119.39	112.54
1	5	398	GLU	N-CA-C	5.62	119.39	112.54
1	a	398	GLU	N-CA-C	5.62	119.39	112.54
1	h	398	GLU	N-CA-C	5.62	119.39	112.54
1	n	398	GLU	N-CA-C	5.62	119.39	112.54
1	d	398	GLU	N-CA-C	5.61	119.39	112.54
1	6	398	GLU	N-CA-C	5.61	119.38	112.54
1	r	398	GLU	N-CA-C	5.60	119.38	112.54
1	P	398	GLU	N-CA-C	5.60	119.37	112.54
1	S	398	GLU	N-CA-C	5.60	119.37	112.54
1	X	398	GLU	N-CA-C	5.60	119.37	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2	398	GLU	N-CA-C	5.60	119.37	112.54
1	c	398	GLU	N-CA-C	5.60	119.37	112.54
1	7	398	GLU	N-CA-C	5.60	119.37	112.54
1	y	398	GLU	N-CA-C	5.59	119.36	112.54
1	w	398	GLU	N-CA-C	5.59	119.36	112.54
1	N	398	GLU	N-CA-C	5.58	119.35	112.54
1	u	398	GLU	N-CA-C	5.58	119.35	112.54
1	C	398	GLU	N-CA-C	5.58	119.35	112.54
1	D	518	MET	N-CA-C	-5.01	102.11	109.62
1	M	518	MET	N-CA-C	-5.01	102.11	109.62
1	J	518	MET	N-CA-C	-5.01	102.11	109.62
1	L	518	MET	N-CA-C	-5.01	102.11	109.62
1	O	518	MET	N-CA-C	-5.01	102.11	109.62
1	h	518	MET	N-CA-C	-5.01	102.11	109.62
1	K	518	MET	N-CA-C	-5.01	102.11	109.62
1	N	518	MET	N-CA-C	-5.01	102.11	109.62
1	U	518	MET	N-CA-C	-5.01	102.11	109.62
1	4	518	MET	N-CA-C	-5.01	102.11	109.62
1	p	518	MET	N-CA-C	-5.01	102.11	109.62
1	y	518	MET	N-CA-C	-5.01	102.11	109.62
1	c	518	MET	N-CA-C	-5.00	102.12	109.62

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4131	0	3884	247	0
1	2	4131	0	3884	248	0
1	3	4131	0	3884	241	0
1	4	4131	0	3884	247	0
1	5	4131	0	3884	251	0
1	6	4131	0	3884	245	0
1	7	4131	0	3884	249	0
1	8	4131	0	3884	247	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4131	0	3884	245	0
1	B	4131	0	3884	243	0
1	C	4131	0	3884	249	0
1	D	4131	0	3884	247	0
1	E	4131	0	3884	248	0
1	F	4131	0	3884	243	0
1	G	4131	0	3884	243	0
1	H	4131	0	3884	245	0
1	I	4131	0	3884	246	0
1	J	4131	0	3884	243	0
1	K	4131	0	3884	251	0
1	L	4131	0	3884	243	0
1	M	4131	0	3884	245	0
1	N	4131	0	3884	245	0
1	O	4131	0	3884	250	0
1	P	4131	0	3884	249	0
1	Q	4131	0	3884	246	0
1	R	4131	0	3884	241	0
1	S	4131	0	3884	244	0
1	T	4131	0	3884	243	0
1	U	4131	0	3884	245	0
1	V	4131	0	3884	244	0
1	W	4131	0	3884	246	0
1	X	4131	0	3884	246	0
1	Y	4131	0	3884	240	0
1	Z	4131	0	3884	247	0
1	a	4131	0	3884	246	0
1	b	4131	0	3884	251	0
1	c	4131	0	3884	248	0
1	d	4131	0	3884	239	0
1	e	4131	0	3884	248	0
1	f	4131	0	3884	238	0
1	g	4131	0	3884	245	0
1	h	4131	0	3884	245	0
1	i	4131	0	3884	245	0
1	j	4131	0	3884	244	0
1	k	4131	0	3884	244	0
1	l	4131	0	3884	248	0
1	m	4131	0	3884	242	0
1	n	4131	0	3884	243	0
1	o	4131	0	3884	246	0
1	p	4131	0	3884	245	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	q	4131	0	3884	245	0
1	r	4131	0	3884	243	0
1	s	4131	0	3884	245	0
1	t	4131	0	3884	246	0
1	u	4131	0	3884	250	0
1	v	4131	0	3884	250	0
1	w	4131	0	3884	245	0
1	x	4131	0	3884	241	0
1	y	4131	0	3884	250	0
1	z	4131	0	3884	245	0
All	All	247860	0	233040	11887	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 25.

All (11887) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:559:MET:SD	1:N:726:PRO:HD3	1.26	1.75
1:I:559:MET:SD	1:I:726:PRO:HD3	1.26	1.75
1:b:559:MET:SD	1:b:726:PRO:HD3	1.26	1.75
1:P:559:MET:SD	1:P:726:PRO:HD3	1.26	1.75
1:6:559:MET:SD	1:6:726:PRO:HD3	1.26	1.75
1:s:559:MET:SD	1:s:726:PRO:HD3	1.26	1.75
1:C:559:MET:SD	1:C:726:PRO:HD3	1.26	1.74
1:D:559:MET:SD	1:D:726:PRO:HD3	1.26	1.74
1:3:559:MET:SD	1:3:726:PRO:HD3	1.26	1.74
1:x:559:MET:SD	1:x:726:PRO:HD3	1.26	1.74
1:a:559:MET:SD	1:a:726:PRO:HD3	1.26	1.74
1:u:559:MET:SD	1:u:726:PRO:HD3	1.26	1.74
1:S:559:MET:SD	1:S:726:PRO:HD3	1.26	1.73
1:T:559:MET:SD	1:T:726:PRO:HD3	1.26	1.72
1:M:559:MET:SD	1:M:726:PRO:HD3	1.26	1.72
1:X:559:MET:SD	1:X:726:PRO:HD3	1.26	1.72
1:g:559:MET:SD	1:g:726:PRO:HD3	1.26	1.72
1:t:559:MET:SD	1:t:726:PRO:HD3	1.26	1.71
1:5:559:MET:SD	1:5:726:PRO:HD3	1.26	1.71
1:F:559:MET:SD	1:F:726:PRO:HD3	1.26	1.71
1:J:559:MET:SD	1:J:726:PRO:HD3	1.26	1.71
1:Y:559:MET:SD	1:Y:726:PRO:HD3	1.26	1.71
1:h:559:MET:SD	1:h:726:PRO:HD3	1.26	1.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:559:MET:SD	1:V:726:PRO:HD3	1.26	1.71
1:j:559:MET:SD	1:j:726:PRO:HD3	1.26	1.71
1:K:559:MET:SD	1:K:726:PRO:HD3	1.26	1.71
1:n:559:MET:SD	1:n:726:PRO:HD3	1.26	1.71
1:q:559:MET:SD	1:q:726:PRO:HD3	1.26	1.71
1:H:559:MET:SD	1:H:726:PRO:HD3	1.26	1.70
1:O:559:MET:SD	1:O:726:PRO:HD3	1.26	1.70
1:Z:559:MET:SD	1:Z:726:PRO:HD3	1.26	1.70
1:m:559:MET:SD	1:m:726:PRO:HD3	1.26	1.70
1:d:559:MET:SD	1:d:726:PRO:HD3	1.26	1.70
1:k:559:MET:SD	1:k:726:PRO:HD3	1.26	1.70
1:y:559:MET:SD	1:y:726:PRO:HD3	1.26	1.70
1:A:559:MET:SD	1:A:726:PRO:HD3	1.26	1.70
1:E:559:MET:SD	1:E:726:PRO:HD3	1.26	1.69
1:p:559:MET:SD	1:p:726:PRO:HD3	1.26	1.68
1:v:559:MET:SD	1:v:726:PRO:HD3	1.26	1.68
1:z:559:MET:SD	1:z:726:PRO:HD3	1.26	1.68
1:7:559:MET:SD	1:7:726:PRO:HD3	1.26	1.68
1:8:559:MET:SD	1:8:726:PRO:HD3	1.26	1.68
1:e:559:MET:SD	1:e:726:PRO:HD3	1.26	1.68
1:1:559:MET:SD	1:1:726:PRO:HD3	1.26	1.68
1:2:559:MET:SD	1:2:726:PRO:HD3	1.26	1.68
1:B:559:MET:SD	1:B:726:PRO:HD3	1.26	1.68
1:c:559:MET:SD	1:c:726:PRO:HD3	1.26	1.67
1:L:559:MET:SD	1:L:726:PRO:HD3	1.26	1.66
1:Q:559:MET:SD	1:Q:726:PRO:HD3	1.26	1.66
1:o:559:MET:SD	1:o:726:PRO:HD3	1.26	1.66
1:w:559:MET:SD	1:w:726:PRO:HD3	1.26	1.66
1:i:559:MET:SD	1:i:726:PRO:HD3	1.26	1.66
1:f:559:MET:SD	1:f:726:PRO:HD3	1.26	1.65
1:R:559:MET:SD	1:R:726:PRO:HD3	1.26	1.65
1:U:559:MET:SD	1:U:726:PRO:HD3	1.26	1.64
1:l:559:MET:SD	1:l:726:PRO:HD3	1.26	1.64
1:4:559:MET:SD	1:4:726:PRO:HD3	1.26	1.64
1:r:559:MET:SD	1:r:726:PRO:HD3	1.26	1.64
1:W:559:MET:SD	1:W:726:PRO:HD3	1.26	1.63
1:G:559:MET:SD	1:G:726:PRO:HD3	1.26	1.63
1:d:294:SER:CB	1:r:399:TYR:OH	1.64	1.45
1:A:399:TYR:OH	1:B:294:SER:CB	1.65	1.45
1:j:399:TYR:OH	1:z:294:SER:CB	1.65	1.45
1:p:294:SER:CB	1:q:399:TYR:OH	1.64	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:399:TYR:OH	1:1:294:SER:CB	1.65	1.45
1:D:399:TYR:OH	1:E:294:SER:CB	1.65	1.45
1:X:294:SER:CB	1:Y:399:TYR:OH	1.65	1.44
1:a:399:TYR:OH	1:e:294:SER:CB	1.66	1.44
1:F:399:TYR:OH	1:R:294:SER:CB	1.65	1.44
1:M:399:TYR:OH	1:3:294:SER:CB	1.65	1.44
1:a:294:SER:CB	1:u:399:TYR:OH	1.65	1.44
1:C:399:TYR:OH	1:D:294:SER:CB	1.65	1.44
1:J:294:SER:CB	1:1:399:TYR:OH	1.65	1.44
1:V:399:TYR:OH	1:W:294:SER:CB	1.65	1.44
1:g:294:SER:CB	1:m:399:TYR:OH	1.65	1.44
1:j:294:SER:CB	1:k:399:TYR:OH	1.65	1.44
1:t:399:TYR:OH	1:x:294:SER:CB	1.65	1.44
1:B:399:TYR:OH	1:C:294:SER:CB	1.64	1.44
1:5:294:SER:CB	1:b:399:TYR:OH	1.65	1.44
1:h:399:TYR:OH	1:l:294:SER:CB	1.65	1.44
1:n:294:SER:CB	1:z:399:TYR:OH	1.65	1.44
1:H:399:TYR:OH	1:Z:294:SER:CB	1.65	1.44
1:p:399:TYR:OH	1:u:294:SER:CB	1.64	1.44
1:O:294:SER:CB	1:P:399:TYR:OH	1.65	1.43
1:Q:294:SER:CB	1:S:399:TYR:OH	1.65	1.43
1:3:399:TYR:OH	1:m:294:SER:CB	1.65	1.43
1:F:294:SER:CB	1:G:399:TYR:OH	1.65	1.43
1:L:294:SER:CB	1:2:399:TYR:OH	1.65	1.43
1:R:399:TYR:OH	1:V:294:SER:CB	1.65	1.43
1:Y:294:SER:CB	1:x:399:TYR:OH	1.65	1.43
1:o:294:SER:CB	1:v:399:TYR:OH	1.65	1.43
1:w:294:SER:CB	1:8:399:TYR:OH	1.64	1.43
1:H:559:MET:SD	1:H:726:PRO:CD	2.07	1.43
1:K:294:SER:CB	1:L:399:TYR:OH	1.64	1.43
1:i:294:SER:CB	1:7:399:TYR:OH	1.65	1.43
1:k:559:MET:SD	1:k:726:PRO:CD	2.07	1.43
1:T:294:SER:CB	1:U:399:TYR:OH	1.65	1.43
1:T:399:TYR:OH	1:c:294:SER:CB	1.65	1.43
1:2:294:SER:CB	1:i:399:TYR:OH	1.64	1.43
1:f:399:TYR:OH	1:h:294:SER:CB	1.65	1.43
1:o:399:TYR:OH	1:y:294:SER:CB	1.64	1.43
1:M:559:MET:SD	1:M:726:PRO:CD	2.07	1.42
1:S:294:SER:CB	1:4:399:TYR:OH	1.65	1.42
1:i:559:MET:SD	1:i:726:PRO:CD	2.07	1.42
1:t:559:MET:SD	1:t:726:PRO:CD	2.07	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:294:SER:CB	1:w:399:TYR:OH	1.64	1.42
1:7:559:MET:SD	1:7:726:PRO:CD	2.07	1.42
1:8:559:MET:SD	1:8:726:PRO:CD	2.07	1.42
1:O:399:TYR:OH	1:4:294:SER:CB	1.64	1.42
1:U:294:SER:CB	1:5:399:TYR:OH	1.64	1.42
1:w:559:MET:SD	1:w:726:PRO:CD	2.07	1.42
1:6:399:TYR:OH	1:t:294:SER:CB	1.65	1.42
1:g:559:MET:SD	1:g:726:PRO:CD	2.07	1.42
1:A:294:SER:CB	1:E:399:TYR:OH	1.65	1.42
1:M:294:SER:CB	1:N:399:TYR:OH	1.65	1.42
1:N:559:MET:SD	1:N:726:PRO:CD	2.07	1.42
1:S:559:MET:SD	1:S:726:PRO:CD	2.07	1.42
1:X:559:MET:SD	1:X:726:PRO:CD	2.07	1.42
1:k:294:SER:CB	1:s:399:TYR:OH	1.65	1.42
1:o:559:MET:SD	1:o:726:PRO:CD	2.07	1.42
1:I:294:SER:CB	1:J:399:TYR:OH	1.65	1.41
1:L:559:MET:SD	1:L:726:PRO:CD	2.07	1.41
1:T:559:MET:SD	1:T:726:PRO:CD	2.07	1.41
1:X:399:TYR:OH	1:6:294:SER:CB	1.64	1.41
1:e:399:TYR:OH	1:q:294:SER:CB	1.65	1.41
1:n:399:TYR:OH	1:s:294:SER:CB	1.65	1.41
1:p:559:MET:SD	1:p:726:PRO:CD	2.07	1.41
1:H:294:SER:CB	1:I:399:TYR:OH	1.65	1.41
1:N:294:SER:CB	1:g:399:TYR:OH	1.64	1.41
1:V:559:MET:SD	1:V:726:PRO:CD	2.07	1.41
1:1:559:MET:SD	1:1:726:PRO:CD	2.07	1.41
1:5:559:MET:SD	1:5:726:PRO:CD	2.07	1.41
1:6:559:MET:SD	1:6:726:PRO:CD	2.07	1.41
1:b:294:SER:CB	1:c:399:TYR:OH	1.65	1.41
1:h:559:MET:SD	1:h:726:PRO:CD	2.07	1.41
1:z:559:MET:SD	1:z:726:PRO:CD	2.07	1.41
1:B:559:MET:SD	1:B:726:PRO:CD	2.07	1.41
1:E:559:MET:SD	1:E:726:PRO:CD	2.07	1.41
1:G:294:SER:CB	1:W:399:TYR:OH	1.65	1.41
1:O:559:MET:SD	1:O:726:PRO:CD	2.07	1.41
1:P:294:SER:CB	1:Q:399:TYR:OH	1.64	1.41
1:Q:559:MET:SD	1:Q:726:PRO:CD	2.07	1.41
1:e:559:MET:SD	1:e:726:PRO:CD	2.07	1.41
1:y:399:TYR:OH	1:8:294:SER:CB	1.65	1.41
1:3:559:MET:SD	1:3:726:PRO:CD	2.07	1.41
1:c:559:MET:SD	1:c:726:PRO:CD	2.07	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:559:MET:SD	1:j:726:PRO:CD	2.07	1.41
1:s:559:MET:SD	1:s:726:PRO:CD	2.07	1.41
1:x:559:MET:SD	1:x:726:PRO:CD	2.07	1.41
1:A:559:MET:SD	1:A:726:PRO:CD	2.07	1.41
1:K:399:TYR:OH	1:7:294:SER:CB	1.65	1.41
1:l:399:TYR:OH	1:r:294:SER:CB	1.65	1.41
1:q:559:MET:SD	1:q:726:PRO:CD	2.07	1.41
1:I:559:MET:SD	1:I:726:PRO:CD	2.07	1.40
1:Y:559:MET:SD	1:Y:726:PRO:CD	2.07	1.40
1:K:559:MET:SD	1:K:726:PRO:CD	2.07	1.40
1:U:559:MET:SD	1:U:726:PRO:CD	2.07	1.40
1:G:559:MET:SD	1:G:726:PRO:CD	2.07	1.40
1:Z:559:MET:SD	1:Z:726:PRO:CD	2.07	1.40
1:y:559:MET:SD	1:y:726:PRO:CD	2.07	1.40
1:W:559:MET:SD	1:W:726:PRO:CD	2.07	1.40
1:l:559:MET:SD	1:l:726:PRO:CD	2.07	1.40
1:r:559:MET:SD	1:r:726:PRO:CD	2.07	1.40
1:C:559:MET:SD	1:C:726:PRO:CD	2.07	1.40
1:D:559:MET:SD	1:D:726:PRO:CD	2.07	1.40
1:R:559:MET:SD	1:R:726:PRO:CD	2.07	1.40
1:a:559:MET:SD	1:a:726:PRO:CD	2.07	1.40
1:f:559:MET:SD	1:f:726:PRO:CD	2.07	1.40
1:m:559:MET:SD	1:m:726:PRO:CD	2.07	1.40
1:u:559:MET:SD	1:u:726:PRO:CD	2.07	1.40
1:J:559:MET:SD	1:J:726:PRO:CD	2.07	1.39
1:4:559:MET:SD	1:4:726:PRO:CD	2.07	1.39
1:n:559:MET:SD	1:n:726:PRO:CD	2.07	1.39
1:v:559:MET:SD	1:v:726:PRO:CD	2.07	1.39
1:2:559:MET:SD	1:2:726:PRO:CD	2.07	1.38
1:F:559:MET:SD	1:F:726:PRO:CD	2.07	1.38
1:d:559:MET:SD	1:d:726:PRO:CD	2.07	1.38
1:P:559:MET:SD	1:P:726:PRO:CD	2.07	1.37
1:b:559:MET:SD	1:b:726:PRO:CD	2.07	1.37
1:d:707:LYS:NZ	1:r:384:ASP:OD2	1.63	1.30
1:g:707:LYS:NZ	1:m:384:ASP:OD2	1.68	1.27
1:X:707:LYS:NZ	1:Y:384:ASP:OD2	1.68	1.27
1:K:707:LYS:NZ	1:L:384:ASP:OD2	1.68	1.26
1:h:384:ASP:OD2	1:l:707:LYS:NZ	1.68	1.26
1:y:384:ASP:OD2	1:8:707:LYS:NZ	1.68	1.26
1:K:384:ASP:OD2	1:7:707:LYS:NZ	1.68	1.26
1:M:384:ASP:OD2	1:3:707:LYS:NZ	1.68	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:384:ASP:OD2	1:W:707:LYS:NZ	1.68	1.26
1:X:384:ASP:OD2	1:6:707:LYS:NZ	1.68	1.26
1:o:384:ASP:OD2	1:y:707:LYS:NZ	1.68	1.26
1:N:707:LYS:NZ	1:g:384:ASP:OD2	1.68	1.26
1:U:707:LYS:NZ	1:5:384:ASP:OD2	1.68	1.26
1:t:384:ASP:OD2	1:x:707:LYS:NZ	1.69	1.26
1:w:707:LYS:NZ	1:8:384:ASP:OD2	1.66	1.26
1:O:384:ASP:OD2	1:4:707:LYS:NZ	1.68	1.26
1:a:707:LYS:NZ	1:u:384:ASP:OD2	1.68	1.26
1:f:384:ASP:OD2	1:h:707:LYS:NZ	1.68	1.26
1:C:384:ASP:OD2	1:D:707:LYS:NZ	1.68	1.26
1:L:707:LYS:NZ	1:2:384:ASP:OD2	1.68	1.26
1:O:707:LYS:NZ	1:P:384:ASP:OD2	1.68	1.26
1:Z:384:ASP:OD2	1:1:707:LYS:NZ	1.68	1.26
1:5:707:LYS:NZ	1:b:384:ASP:OD2	1.68	1.26
1:j:384:ASP:OD2	1:z:707:LYS:NZ	1.68	1.26
1:o:707:LYS:NZ	1:v:384:ASP:OD2	1.68	1.26
1:G:707:LYS:NZ	1:W:384:ASP:OD2	1.68	1.25
1:Q:707:LYS:NZ	1:S:384:ASP:OD2	1.68	1.25
1:R:384:ASP:OD2	1:V:707:LYS:NZ	1.68	1.25
1:l:384:ASP:OD2	1:r:707:LYS:NZ	1.69	1.25
1:2:707:LYS:NZ	1:i:384:ASP:OD2	1.68	1.25
1:v:707:LYS:NZ	1:w:384:ASP:OD2	1.68	1.25
1:B:384:ASP:OD2	1:C:707:LYS:NZ	1.68	1.25
1:S:707:LYS:NZ	1:4:384:ASP:OD2	1.68	1.25
1:T:384:ASP:OD2	1:c:707:LYS:NZ	1.69	1.25
1:6:384:ASP:OD2	1:t:707:LYS:NZ	1.68	1.25
1:p:384:ASP:OD2	1:u:707:LYS:NZ	1.68	1.25
1:T:707:LYS:NZ	1:U:384:ASP:OD2	1.68	1.25
1:Y:707:LYS:NZ	1:x:384:ASP:OD2	1.68	1.25
1:i:707:LYS:NZ	1:7:384:ASP:OD2	1.68	1.25
1:3:384:ASP:OD2	1:m:707:LYS:NZ	1.68	1.24
1:e:384:ASP:OD2	1:q:707:LYS:NZ	1.68	1.24
1:j:707:LYS:NZ	1:k:384:ASP:OD2	1.68	1.24
1:H:384:ASP:OD2	1:Z:707:LYS:NZ	1.68	1.24
1:M:707:LYS:NZ	1:N:384:ASP:OD2	1.68	1.24
1:A:707:LYS:NZ	1:E:384:ASP:OD2	1.69	1.24
1:F:707:LYS:NZ	1:G:384:ASP:OD2	1.68	1.24
1:I:707:LYS:NZ	1:J:384:ASP:OD2	1.68	1.24
1:J:707:LYS:NZ	1:1:384:ASP:OD2	1.68	1.24
1:p:707:LYS:NZ	1:q:384:ASP:OD2	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:ASP:OD2	1:B:707:LYS:NZ	1.68	1.23
1:D:384:ASP:OD2	1:E:707:LYS:NZ	1.68	1.23
1:b:707:LYS:NZ	1:c:384:ASP:OD2	1.68	1.23
1:n:384:ASP:OD2	1:s:707:LYS:NZ	1.68	1.23
1:n:707:LYS:NZ	1:z:384:ASP:OD2	1.68	1.23
1:P:707:LYS:NZ	1:Q:384:ASP:OD2	1.68	1.23
1:a:384:ASP:OD2	1:e:707:LYS:NZ	1.69	1.23
1:F:384:ASP:OD2	1:R:707:LYS:NZ	1.68	1.23
1:d:384:ASP:OD2	1:f:707:LYS:NZ	1.67	1.23
1:K:559:MET:SD	1:K:725:ARG:HA	1.80	1.22
1:e:559:MET:SD	1:e:725:ARG:HA	1.80	1.22
1:y:559:MET:SD	1:y:725:ARG:HA	1.80	1.22
1:D:559:MET:SD	1:D:725:ARG:HA	1.80	1.22
1:H:559:MET:SD	1:H:725:ARG:HA	1.80	1.22
1:H:707:LYS:NZ	1:I:384:ASP:OD2	1.68	1.22
1:R:559:MET:SD	1:R:725:ARG:HA	1.80	1.22
1:a:559:MET:SD	1:a:725:ARG:HA	1.80	1.22
1:f:559:MET:SD	1:f:725:ARG:HA	1.80	1.22
1:i:559:MET:SD	1:i:725:ARG:HA	1.80	1.22
1:k:559:MET:SD	1:k:725:ARG:HA	1.80	1.22
1:w:559:MET:SD	1:w:725:ARG:HA	1.80	1.22
1:C:559:MET:SD	1:C:725:ARG:HA	1.80	1.22
1:E:559:MET:SD	1:E:725:ARG:HA	1.80	1.22
1:I:559:MET:SD	1:I:725:ARG:HA	1.80	1.22
1:s:559:MET:SD	1:s:725:ARG:HA	1.80	1.22
1:B:559:MET:SD	1:B:725:ARG:HA	1.80	1.21
1:k:707:LYS:NZ	1:s:384:ASP:OD2	1.68	1.21
1:p:559:MET:SD	1:p:725:ARG:HA	1.80	1.21
1:u:559:MET:SD	1:u:725:ARG:HA	1.80	1.21
1:P:559:MET:SD	1:P:725:ARG:HA	1.80	1.21
1:W:559:MET:SD	1:W:725:ARG:HA	1.80	1.21
1:X:559:MET:SD	1:X:725:ARG:HA	1.80	1.21
1:b:559:MET:SD	1:b:725:ARG:HA	1.80	1.21
1:l:559:MET:SD	1:l:725:ARG:HA	1.80	1.21
1:J:559:MET:SD	1:J:725:ARG:HA	1.80	1.21
1:V:559:MET:SD	1:V:725:ARG:HA	1.80	1.21
1:2:559:MET:SD	1:2:725:ARG:HA	1.80	1.21
1:g:559:MET:SD	1:g:725:ARG:HA	1.80	1.21
1:h:559:MET:SD	1:h:725:ARG:HA	1.80	1.21
1:n:559:MET:SD	1:n:725:ARG:HA	1.80	1.21
1:o:559:MET:SD	1:o:725:ARG:HA	1.80	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:559:MET:SD	1:F:725:ARG:HA	1.80	1.21
1:L:559:MET:SD	1:L:725:ARG:HA	1.80	1.21
1:M:559:MET:SD	1:M:725:ARG:HA	1.80	1.21
1:3:559:MET:SD	1:3:725:ARG:HA	1.80	1.21
1:d:559:MET:SD	1:d:725:ARG:HA	1.80	1.21
1:U:559:MET:SD	1:U:725:ARG:HA	1.80	1.20
1:t:559:MET:SD	1:t:725:ARG:HA	1.80	1.20
1:v:559:MET:SD	1:v:725:ARG:HA	1.80	1.20
1:O:559:MET:SD	1:O:725:ARG:HA	1.80	1.20
1:4:559:MET:SD	1:4:725:ARG:HA	1.80	1.20
1:5:559:MET:SD	1:5:725:ARG:HA	1.80	1.20
1:x:559:MET:SD	1:x:725:ARG:HA	1.80	1.20
1:A:559:MET:SD	1:A:725:ARG:HA	1.80	1.20
1:N:559:MET:SD	1:N:725:ARG:HA	1.80	1.20
1:8:559:MET:SD	1:8:725:ARG:HA	1.80	1.20
1:Z:559:MET:SD	1:Z:725:ARG:HA	1.80	1.20
1:6:559:MET:SD	1:6:725:ARG:HA	1.80	1.20
1:j:559:MET:SD	1:j:725:ARG:HA	1.80	1.20
1:q:559:MET:SD	1:q:725:ARG:HA	1.80	1.20
1:Q:559:MET:SD	1:Q:725:ARG:HA	1.80	1.20
1:S:559:MET:SD	1:S:725:ARG:HA	1.80	1.20
1:T:559:MET:SD	1:T:725:ARG:HA	1.80	1.20
1:m:559:MET:SD	1:m:725:ARG:HA	1.80	1.20
1:7:559:MET:SD	1:7:725:ARG:HA	1.80	1.20
1:G:559:MET:SD	1:G:725:ARG:HA	1.80	1.19
1:Y:559:MET:SD	1:Y:725:ARG:HA	1.80	1.19
1:c:559:MET:SD	1:c:725:ARG:HA	1.80	1.19
1:r:559:MET:SD	1:r:725:ARG:HA	1.80	1.19
1:1:559:MET:SD	1:1:725:ARG:HA	1.80	1.19
1:z:559:MET:SD	1:z:725:ARG:HA	1.80	1.19
1:h:559:MET:CG	1:h:726:PRO:HD3	1.76	1.16
1:p:559:MET:CG	1:p:726:PRO:HD3	1.76	1.16
1:r:559:MET:CG	1:r:726:PRO:HD3	1.76	1.16
1:B:559:MET:CG	1:B:726:PRO:HD3	1.76	1.16
1:G:559:MET:CG	1:G:726:PRO:HD3	1.76	1.16
1:V:559:MET:CG	1:V:726:PRO:HD3	1.76	1.16
1:w:559:MET:CG	1:w:726:PRO:HD3	1.76	1.16
1:4:559:MET:CG	1:4:726:PRO:HD3	1.76	1.15
1:i:559:MET:CG	1:i:726:PRO:HD3	1.76	1.15
1:H:559:MET:CG	1:H:726:PRO:HD3	1.76	1.15
1:K:559:MET:CG	1:K:726:PRO:HD3	1.76	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:559:MET:CG	1:U:726:PRO:HD3	1.76	1.15
1:b:559:MET:CG	1:b:726:PRO:HD3	1.76	1.15
1:j:559:MET:CG	1:j:726:PRO:HD3	1.76	1.15
1:k:559:MET:CG	1:k:726:PRO:HD3	1.76	1.15
1:y:559:MET:CG	1:y:726:PRO:HD3	1.76	1.15
1:E:559:MET:CG	1:E:726:PRO:HD3	1.76	1.15
1:J:559:MET:CG	1:J:726:PRO:HD3	1.76	1.15
1:M:559:MET:CG	1:M:726:PRO:HD3	1.76	1.15
1:P:559:MET:CG	1:P:726:PRO:HD3	1.76	1.15
1:Z:559:MET:CG	1:Z:726:PRO:HD3	1.76	1.15
1:e:559:MET:CG	1:e:726:PRO:HD3	1.76	1.15
1:t:559:MET:CG	1:t:726:PRO:HD3	1.76	1.15
1:Y:559:MET:CG	1:Y:726:PRO:HD3	1.76	1.15
1:3:559:MET:CG	1:3:726:PRO:HD3	1.76	1.15
1:n:559:MET:CG	1:n:726:PRO:HD3	1.76	1.15
1:x:559:MET:CG	1:x:726:PRO:HD3	1.76	1.15
1:m:559:MET:CG	1:m:726:PRO:HD3	1.76	1.15
1:s:559:MET:CG	1:s:726:PRO:HD3	1.76	1.14
1:I:559:MET:CG	1:I:726:PRO:HD3	1.76	1.14
1:6:559:MET:CG	1:6:726:PRO:HD3	1.76	1.14
1:a:559:MET:CG	1:a:726:PRO:HD3	1.76	1.14
1:c:559:MET:CG	1:c:726:PRO:HD3	1.76	1.14
1:D:559:MET:CG	1:D:726:PRO:HD3	1.76	1.14
1:F:559:MET:CG	1:F:726:PRO:HD3	1.76	1.14
1:N:559:MET:CG	1:N:726:PRO:HD3	1.76	1.14
1:Q:559:MET:CG	1:Q:726:PRO:HD3	1.76	1.14
1:X:559:MET:CG	1:X:726:PRO:HD3	1.76	1.14
1:f:559:MET:CG	1:f:726:PRO:HD3	1.76	1.14
1:g:559:MET:CG	1:g:726:PRO:HD3	1.76	1.14
1:7:559:MET:CG	1:7:726:PRO:HD3	1.76	1.14
1:R:559:MET:CG	1:R:726:PRO:HD3	1.76	1.14
1:S:559:MET:CG	1:S:726:PRO:HD3	1.76	1.14
1:1:559:MET:CG	1:1:726:PRO:HD3	1.76	1.14
1:d:559:MET:CG	1:d:726:PRO:HD3	1.76	1.14
1:8:559:MET:CG	1:8:726:PRO:HD3	1.76	1.14
1:O:559:MET:CG	1:O:726:PRO:HD3	1.76	1.14
1:T:559:MET:CG	1:T:726:PRO:HD3	1.76	1.14
1:z:559:MET:CG	1:z:726:PRO:HD3	1.76	1.14
1:W:559:MET:CG	1:W:726:PRO:HD3	1.76	1.13
1:5:559:MET:CG	1:5:726:PRO:HD3	1.76	1.13
1:A:559:MET:CG	1:A:726:PRO:HD3	1.76	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:559:MET:CG	1:2:726:PRO:HD3	1.76	1.13
1:l:559:MET:CG	1:l:726:PRO:HD3	1.76	1.13
1:v:559:MET:CG	1:v:726:PRO:HD3	1.76	1.13
1:C:559:MET:CG	1:C:726:PRO:HD3	1.76	1.13
1:D:436:MET:SD	1:D:471:MET:HG3	1.89	1.13
1:L:559:MET:CG	1:L:726:PRO:HD3	1.76	1.13
1:U:436:MET:SD	1:U:471:MET:HG3	1.89	1.13
1:4:436:MET:SD	1:4:471:MET:HG3	1.89	1.13
1:6:436:MET:SD	1:6:471:MET:HG3	1.89	1.13
1:a:436:MET:SD	1:a:471:MET:HG3	1.89	1.13
1:i:436:MET:SD	1:i:471:MET:HG3	1.89	1.13
1:l:436:MET:SD	1:l:471:MET:HG3	1.89	1.13
1:o:559:MET:CG	1:o:726:PRO:HD3	1.76	1.13
1:B:436:MET:SD	1:B:471:MET:HG3	1.89	1.13
1:H:436:MET:SD	1:H:471:MET:HG3	1.89	1.13
1:N:436:MET:SD	1:N:471:MET:HG3	1.89	1.13
1:S:436:MET:SD	1:S:471:MET:HG3	1.89	1.13
1:T:436:MET:SD	1:T:471:MET:HG3	1.89	1.13
1:W:436:MET:SD	1:W:471:MET:HG3	1.89	1.13
1:k:436:MET:SD	1:k:471:MET:HG3	1.89	1.13
1:p:436:MET:SD	1:p:471:MET:HG3	1.89	1.13
1:q:559:MET:CG	1:q:726:PRO:HD3	1.76	1.13
1:w:436:MET:SD	1:w:471:MET:HG3	1.89	1.13
1:P:436:MET:SD	1:P:471:MET:HG3	1.89	1.13
1:Z:436:MET:SD	1:Z:471:MET:HG3	1.89	1.12
1:h:436:MET:SD	1:h:471:MET:HG3	1.89	1.12
1:j:436:MET:SD	1:j:471:MET:HG3	1.89	1.13
1:u:559:MET:CG	1:u:726:PRO:HD3	1.76	1.13
1:b:436:MET:SD	1:b:471:MET:HG3	1.89	1.12
1:E:436:MET:SD	1:E:471:MET:HG3	1.89	1.12
1:L:436:MET:SD	1:L:471:MET:HG3	1.89	1.12
1:R:436:MET:SD	1:R:471:MET:HG3	1.89	1.12
1:V:436:MET:SD	1:V:471:MET:HG3	1.89	1.12
1:e:436:MET:SD	1:e:471:MET:HG3	1.89	1.12
1:o:436:MET:SD	1:o:471:MET:HG3	1.89	1.12
1:y:436:MET:SD	1:y:471:MET:HG3	1.89	1.12
1:A:436:MET:SD	1:A:471:MET:HG3	1.89	1.12
1:J:436:MET:SD	1:J:471:MET:HG3	1.89	1.12
1:K:436:MET:SD	1:K:471:MET:HG3	1.89	1.12
1:2:436:MET:SD	1:2:471:MET:HG3	1.89	1.12
1:q:436:MET:SD	1:q:471:MET:HG3	1.89	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:436:MET:SD	1:v:471:MET:HG3	1.89	1.12
1:X:436:MET:SD	1:X:471:MET:HG3	1.89	1.12
1:f:436:MET:SD	1:f:471:MET:HG3	1.89	1.12
1:g:436:MET:SD	1:g:471:MET:HG3	1.89	1.12
1:n:436:MET:SD	1:n:471:MET:HG3	1.89	1.12
1:F:436:MET:SD	1:F:471:MET:HG3	1.89	1.11
1:3:436:MET:SD	1:3:471:MET:HG3	1.89	1.11
1:z:436:MET:SD	1:z:471:MET:HG3	1.89	1.11
1:M:436:MET:SD	1:M:471:MET:HG3	1.89	1.11
1:Y:436:MET:SD	1:Y:471:MET:HG3	1.89	1.11
1:1:436:MET:SD	1:1:471:MET:HG3	1.89	1.11
1:c:436:MET:SD	1:c:471:MET:HG3	1.89	1.11
1:d:436:MET:SD	1:d:471:MET:HG3	1.89	1.11
1:m:436:MET:SD	1:m:471:MET:HG3	1.89	1.11
1:x:436:MET:SD	1:x:471:MET:HG3	1.89	1.11
1:Q:436:MET:SD	1:Q:471:MET:HG3	1.89	1.11
1:5:436:MET:SD	1:5:471:MET:HG3	1.89	1.11
1:7:436:MET:SD	1:7:471:MET:HG3	1.89	1.11
1:O:436:MET:SD	1:O:471:MET:HG3	1.89	1.11
1:s:436:MET:SD	1:s:471:MET:HG3	1.89	1.11
1:t:436:MET:SD	1:t:471:MET:HG3	1.89	1.11
1:8:436:MET:SD	1:8:471:MET:HG3	1.89	1.11
1:C:436:MET:SD	1:C:471:MET:HG3	1.89	1.11
1:G:436:MET:SD	1:G:471:MET:HG3	1.89	1.11
1:I:436:MET:SD	1:I:471:MET:HG3	1.89	1.11
1:u:436:MET:SD	1:u:471:MET:HG3	1.89	1.11
1:r:436:MET:SD	1:r:471:MET:HG3	1.89	1.10
1:t:399:TYR:OH	1:x:294:SER:HB3	0.85	1.03
1:M:399:TYR:OH	1:3:294:SER:HB3	0.84	1.02
1:F:294:SER:HB3	1:G:399:TYR:OH	0.84	1.02
1:G:294:SER:HB3	1:W:399:TYR:OH	0.84	1.02
1:K:399:TYR:OH	1:7:294:SER:HB3	0.84	1.02
1:M:294:SER:HB3	1:N:399:TYR:OH	0.84	1.02
1:l:399:TYR:OH	1:r:294:SER:HB3	0.84	1.02
1:y:399:TYR:OH	1:8:294:SER:HB3	0.84	1.02
1:Y:294:SER:HB3	1:x:399:TYR:OH	0.84	1.02
1:3:399:TYR:OH	1:m:294:SER:HB3	0.84	1.02
1:6:399:TYR:OH	1:t:294:SER:HB3	0.84	1.02
1:H:294:SER:HB3	1:I:399:TYR:OH	0.84	1.02
1:R:399:TYR:OH	1:V:294:SER:HB3	0.84	1.02
1:T:294:SER:HB3	1:U:399:TYR:OH	0.84	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:399:TYR:OH	1:c:294:SER:HB3	0.84	1.02
1:b:294:SER:HB3	1:c:399:TYR:OH	0.84	1.02
1:f:399:TYR:OH	1:h:294:SER:HB3	0.84	1.02
1:g:294:SER:HB3	1:m:399:TYR:OH	0.84	1.02
1:k:294:SER:HB3	1:s:399:TYR:OH	0.84	1.02
1:A:294:SER:HB3	1:E:399:TYR:OH	0.85	1.01
1:D:399:TYR:OH	1:E:294:SER:HB3	0.84	1.01
1:S:294:SER:HB3	1:4:399:TYR:OH	0.84	1.01
1:X:294:SER:HB3	1:Y:399:TYR:OH	0.84	1.01
1:e:399:TYR:OH	1:q:294:SER:HB3	0.85	1.01
1:I:294:SER:HB3	1:J:399:TYR:OH	0.84	1.01
1:K:294:SER:HB3	1:L:399:TYR:OH	0.84	1.01
1:P:294:SER:HB3	1:Q:399:TYR:OH	0.84	1.01
1:Q:294:SER:HB3	1:S:399:TYR:OH	0.84	1.01
1:2:294:SER:HB3	1:i:399:TYR:OH	0.84	1.01
1:n:399:TYR:OH	1:s:294:SER:HB3	0.84	1.01
1:H:399:TYR:OH	1:Z:294:SER:HB3	0.84	1.01
1:N:294:SER:HB3	1:g:399:TYR:OH	0.84	1.01
1:V:399:TYR:OH	1:W:294:SER:HB3	0.84	1.01
1:5:294:SER:HB3	1:b:399:TYR:OH	0.84	1.01
1:a:399:TYR:OH	1:e:294:SER:HB3	0.84	1.01
1:j:294:SER:HB3	1:k:399:TYR:OH	0.84	1.01
1:o:399:TYR:OH	1:y:294:SER:HB3	0.84	1.01
1:v:294:SER:HB3	1:w:399:TYR:OH	0.84	1.01
1:A:399:TYR:OH	1:B:294:SER:HB3	0.84	1.01
1:B:399:TYR:OH	1:C:294:SER:HB3	0.84	1.01
1:B:488:ARG:HD2	1:B:534:PHE:CD1	1.96	1.01
1:M:488:ARG:HD2	1:M:534:PHE:CD1	1.96	1.01
1:O:294:SER:HB3	1:P:399:TYR:OH	0.84	1.01
1:X:399:TYR:OH	1:6:294:SER:HB3	0.84	1.01
1:2:488:ARG:HD2	1:2:534:PHE:CD1	1.96	1.01
1:a:488:ARG:HD2	1:a:534:PHE:CD1	1.96	1.01
1:e:488:ARG:HD2	1:e:534:PHE:CD1	1.96	1.01
1:h:399:TYR:OH	1:l:294:SER:HB3	0.84	1.01
1:t:488:ARG:HD2	1:t:534:PHE:CD1	1.96	1.01
1:D:488:ARG:HD2	1:D:534:PHE:CD1	1.96	1.01
1:E:488:ARG:HD2	1:E:534:PHE:CD1	1.96	1.01
1:O:399:TYR:OH	1:4:294:SER:HB3	0.84	1.01
1:p:294:SER:HB3	1:q:399:TYR:OH	0.84	1.01
1:p:399:TYR:OH	1:u:294:SER:HB3	0.84	1.01
1:v:488:ARG:HD2	1:v:534:PHE:CD1	1.96	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:488:ARG:HD2	1:K:534:PHE:CD1	1.96	1.00
1:P:488:ARG:HD2	1:P:534:PHE:CD1	1.96	1.00
1:U:294:SER:HB3	1:5:399:TYR:OH	0.84	1.00
1:j:399:TYR:OH	1:z:294:SER:HB3	0.84	1.00
1:k:490:SER:HA	1:k:534:PHE:HB3	1.43	1.00
1:p:488:ARG:HD2	1:p:534:PHE:CD1	1.96	1.00
1:q:488:ARG:HD2	1:q:534:PHE:CD1	1.96	1.00
1:r:488:ARG:HD2	1:r:534:PHE:CD1	1.96	1.00
1:y:488:ARG:HD2	1:y:534:PHE:CD1	1.96	1.00
1:z:488:ARG:HD2	1:z:534:PHE:CD1	1.96	1.00
1:A:488:ARG:HD2	1:A:534:PHE:CD1	1.96	1.00
1:G:488:ARG:HD2	1:G:534:PHE:CD1	1.96	1.00
1:H:490:SER:HA	1:H:534:PHE:HB3	1.43	1.00
1:Q:490:SER:HA	1:Q:534:PHE:HB3	1.43	1.00
1:R:488:ARG:HD2	1:R:534:PHE:CD1	1.96	1.00
1:S:488:ARG:HD2	1:S:534:PHE:CD1	1.96	1.00
1:W:490:SER:HA	1:W:534:PHE:HB3	1.43	1.00
1:1:488:ARG:HD2	1:1:534:PHE:CD1	1.96	1.00
1:b:488:ARG:HD2	1:b:534:PHE:CD1	1.96	1.00
1:c:490:SER:HA	1:c:534:PHE:HB3	1.43	1.00
1:f:488:ARG:HD2	1:f:534:PHE:CD1	1.96	1.00
1:i:294:SER:HB3	1:7:399:TYR:OH	0.84	1.00
1:l:490:SER:HA	1:l:534:PHE:HB3	1.43	1.00
1:u:490:SER:HA	1:u:534:PHE:HB3	1.43	1.00
1:C:399:TYR:OH	1:D:294:SER:HB3	0.84	1.00
1:C:488:ARG:HD2	1:C:534:PHE:CD1	1.96	1.00
1:C:490:SER:HA	1:C:534:PHE:HB3	1.43	1.00
1:J:488:ARG:HD2	1:J:534:PHE:CD1	1.96	1.00
1:N:488:ARG:HD2	1:N:534:PHE:CD1	1.96	1.00
1:R:490:SER:HA	1:R:534:PHE:HB3	1.43	1.00
1:T:488:ARG:HD2	1:T:534:PHE:CD1	1.96	1.00
1:V:488:ARG:HD2	1:V:534:PHE:CD1	1.96	1.00
1:Z:399:TYR:OH	1:1:294:SER:HB3	0.84	1.00
1:6:488:ARG:HD2	1:6:534:PHE:CD1	1.96	1.00
1:d:294:SER:HB3	1:r:399:TYR:OH	0.82	1.00
1:f:490:SER:HA	1:f:534:PHE:HB3	1.43	1.00
1:h:488:ARG:HD2	1:h:534:PHE:CD1	1.96	1.00
1:i:488:ARG:HD2	1:i:534:PHE:CD1	1.96	1.00
1:n:488:ARG:HD2	1:n:534:PHE:CD1	1.96	1.00
1:w:488:ARG:HD2	1:w:534:PHE:CD1	1.96	1.00
1:7:488:ARG:HD2	1:7:534:PHE:CD1	1.96	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:294:SER:HB3	1:u:399:TYR:OH	0.84	1.00
1:n:294:SER:HB3	1:z:399:TYR:OH	0.84	1.00
1:o:488:ARG:HD2	1:o:534:PHE:CD1	1.96	1.00
1:u:488:ARG:HD2	1:u:534:PHE:CD1	1.96	1.00
1:8:488:ARG:HD2	1:8:534:PHE:CD1	1.96	1.00
1:Y:490:SER:HA	1:Y:534:PHE:HB3	1.43	1.00
1:j:488:ARG:HD2	1:j:534:PHE:CD1	1.96	1.00
1:H:488:ARG:HD2	1:H:534:PHE:CD1	1.96	1.00
1:J:294:SER:HB3	1:1:399:TYR:OH	0.84	1.00
1:L:294:SER:HB3	1:2:399:TYR:OH	0.84	1.00
1:g:488:ARG:HD2	1:g:534:PHE:CD1	1.96	1.00
1:F:399:TYR:OH	1:R:294:SER:HB3	0.84	1.00
1:Q:488:ARG:HD2	1:Q:534:PHE:CD1	1.96	1.00
1:Z:488:ARG:HD2	1:Z:534:PHE:CD1	1.96	1.00
1:k:488:ARG:HD2	1:k:534:PHE:CD1	1.96	1.00
1:o:294:SER:HB3	1:v:399:TYR:OH	0.84	1.00
1:F:488:ARG:HD2	1:F:534:PHE:CD1	1.96	0.99
1:Y:488:ARG:HD2	1:Y:534:PHE:CD1	1.96	0.99
1:3:488:ARG:HD2	1:3:534:PHE:CD1	1.96	0.99
1:m:490:SER:HA	1:m:534:PHE:HB3	1.43	0.99
1:L:488:ARG:HD2	1:L:534:PHE:CD1	1.96	0.99
1:X:488:ARG:HD2	1:X:534:PHE:CD1	1.96	0.99
1:c:488:ARG:HD2	1:c:534:PHE:CD1	1.96	0.99
1:d:488:ARG:HD2	1:d:534:PHE:CD1	1.96	0.99
1:o:490:SER:HA	1:o:534:PHE:HB3	1.43	0.99
1:w:294:SER:HB3	1:8:399:TYR:OH	0.83	0.99
1:J:490:SER:HA	1:J:534:PHE:HB3	1.43	0.99
1:x:488:ARG:HD2	1:x:534:PHE:CD1	1.96	0.99
1:m:488:ARG:HD2	1:m:534:PHE:CD1	1.96	0.99
1:L:490:SER:HA	1:L:534:PHE:HB3	1.43	0.99
1:4:488:ARG:HD2	1:4:534:PHE:CD1	1.96	0.99
1:i:490:SER:HA	1:i:534:PHE:HB3	1.43	0.99
1:n:490:SER:HA	1:n:534:PHE:HB3	1.43	0.99
1:U:488:ARG:HD2	1:U:534:PHE:CD1	1.96	0.99
1:5:490:SER:HA	1:5:534:PHE:HB3	1.43	0.99
1:z:490:SER:HA	1:z:534:PHE:HB3	1.44	0.99
1:D:490:SER:HA	1:D:534:PHE:HB3	1.43	0.99
1:I:490:SER:HA	1:I:534:PHE:HB3	1.43	0.99
1:O:490:SER:HA	1:O:534:PHE:HB3	1.43	0.99
1:r:490:SER:HA	1:r:534:PHE:HB3	1.43	0.99
1:w:490:SER:HA	1:w:534:PHE:HB3	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:490:SER:HA	1:1:534:PHE:HB3	1.43	0.99
1:3:490:SER:HA	1:3:534:PHE:HB3	1.43	0.99
1:p:490:SER:HA	1:p:534:PHE:HB3	1.43	0.99
1:s:490:SER:HA	1:s:534:PHE:HB3	1.43	0.99
1:B:490:SER:HA	1:B:534:PHE:HB3	1.43	0.99
1:a:490:SER:HA	1:a:534:PHE:HB3	1.43	0.99
1:G:490:SER:HA	1:G:534:PHE:HB3	1.43	0.99
1:K:490:SER:HA	1:K:534:PHE:HB3	1.43	0.99
1:x:490:SER:HA	1:x:534:PHE:HB3	1.43	0.99
1:7:490:SER:HA	1:7:534:PHE:HB3	1.43	0.99
1:W:488:ARG:HD2	1:W:534:PHE:CD1	1.96	0.98
1:l:488:ARG:HD2	1:l:534:PHE:CD1	1.96	0.98
1:s:488:ARG:HD2	1:s:534:PHE:CD1	1.96	0.98
1:I:488:ARG:HD2	1:I:534:PHE:CD1	1.96	0.98
1:y:490:SER:HA	1:y:534:PHE:HB3	1.43	0.98
1:8:490:SER:HA	1:8:534:PHE:HB3	1.43	0.98
1:O:488:ARG:HD2	1:O:534:PHE:CD1	1.96	0.98
1:X:490:SER:HA	1:X:534:PHE:HB3	1.43	0.98
1:5:488:ARG:HD2	1:5:534:PHE:CD1	1.96	0.98
1:U:490:SER:HA	1:U:534:PHE:HB3	1.43	0.98
1:Z:490:SER:HA	1:Z:534:PHE:HB3	1.43	0.98
1:g:490:SER:HA	1:g:534:PHE:HB3	1.43	0.98
1:4:490:SER:HA	1:4:534:PHE:HB3	1.43	0.98
1:j:490:SER:HA	1:j:534:PHE:HB3	1.43	0.98
1:2:490:SER:HA	1:2:534:PHE:HB3	1.44	0.97
1:d:490:SER:HA	1:d:534:PHE:HB3	1.43	0.97
1:q:490:SER:HA	1:q:534:PHE:HB3	1.43	0.97
1:v:490:SER:HA	1:v:534:PHE:HB3	1.43	0.97
1:A:490:SER:HA	1:A:534:PHE:HB3	1.43	0.97
1:F:490:SER:HA	1:F:534:PHE:HB3	1.43	0.97
1:E:490:SER:HA	1:E:534:PHE:HB3	1.43	0.97
1:e:490:SER:HA	1:e:534:PHE:HB3	1.43	0.97
1:6:490:SER:HA	1:6:534:PHE:HB3	1.43	0.97
1:N:490:SER:HA	1:N:534:PHE:HB3	1.43	0.97
1:P:490:SER:HA	1:P:534:PHE:HB3	1.43	0.97
1:b:490:SER:HA	1:b:534:PHE:HB3	1.43	0.97
1:T:490:SER:HA	1:T:534:PHE:HB3	1.43	0.96
1:t:490:SER:HA	1:t:534:PHE:HB3	1.43	0.96
1:S:490:SER:HA	1:S:534:PHE:HB3	1.43	0.96
1:M:490:SER:HA	1:M:534:PHE:HB3	1.43	0.96
1:h:490:SER:HA	1:h:534:PHE:HB3	1.43	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:490:SER:HA	1:V:534:PHE:HB3	1.43	0.95
1:V:243:SER:HB3	1:V:245:ARG:HH12	1.32	0.95
1:h:243:SER:HB3	1:h:245:ARG:HH12	1.32	0.95
1:i:243:SER:HB3	1:i:245:ARG:HH12	1.32	0.95
1:I:243:SER:HB3	1:I:245:ARG:HH12	1.32	0.94
1:w:243:SER:HB3	1:w:245:ARG:HH12	1.32	0.94
1:7:243:SER:HB3	1:7:245:ARG:HH12	1.32	0.94
1:R:243:SER:HB3	1:R:245:ARG:HH12	1.32	0.94
1:s:243:SER:HB3	1:s:245:ARG:HH12	1.32	0.94
1:8:243:SER:HB3	1:8:245:ARG:HH12	1.32	0.94
1:f:243:SER:HB3	1:f:245:ARG:HH12	1.32	0.94
1:X:243:SER:HB3	1:X:245:ARG:HH12	1.32	0.94
1:F:243:SER:HB3	1:F:245:ARG:HH12	1.32	0.94
1:K:243:SER:HB3	1:K:245:ARG:HH12	1.32	0.94
1:O:243:SER:HB3	1:O:245:ARG:HH12	1.32	0.94
1:5:243:SER:HB3	1:5:245:ARG:HH12	1.32	0.94
1:g:243:SER:HB3	1:g:245:ARG:HH12	1.32	0.94
1:y:243:SER:HB3	1:y:245:ARG:HH12	1.32	0.94
1:P:559:MET:SD	1:P:725:ARG:CA	2.56	0.94
1:Y:243:SER:HB3	1:Y:245:ARG:HH12	1.32	0.94
1:b:559:MET:SD	1:b:725:ARG:CA	2.56	0.94
1:d:243:SER:HB3	1:d:245:ARG:HH12	1.32	0.94
1:m:243:SER:HB3	1:m:245:ARG:HH12	1.32	0.94
1:u:243:SER:HB3	1:u:245:ARG:HH12	1.32	0.94
1:C:243:SER:HB3	1:C:245:ARG:HH12	1.32	0.94
1:S:559:MET:SD	1:S:725:ARG:CA	2.56	0.94
1:e:559:MET:SD	1:e:725:ARG:CA	2.56	0.94
1:n:243:SER:HB3	1:n:245:ARG:HH12	1.32	0.94
1:E:559:MET:SD	1:E:725:ARG:CA	2.56	0.94
1:T:559:MET:SD	1:T:725:ARG:CA	2.56	0.94
1:V:559:MET:SD	1:V:725:ARG:CA	2.56	0.94
1:1:559:MET:SD	1:1:725:ARG:CA	2.56	0.94
1:h:559:MET:SD	1:h:725:ARG:CA	2.56	0.94
1:i:559:MET:SD	1:i:725:ARG:CA	2.56	0.94
1:w:559:MET:SD	1:w:725:ARG:CA	2.56	0.94
1:z:559:MET:SD	1:z:725:ARG:CA	2.56	0.94
1:X:559:MET:SD	1:X:725:ARG:CA	2.56	0.93
1:J:243:SER:HB3	1:J:245:ARG:HH12	1.32	0.93
1:T:243:SER:HB3	1:T:245:ARG:HH12	1.32	0.93
1:Z:559:MET:SD	1:Z:725:ARG:CA	2.56	0.93
1:z:243:SER:HB3	1:z:245:ARG:HH12	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:559:MET:SD	1:R:725:ARG:CA	2.56	0.93
1:Y:559:MET:SD	1:Y:725:ARG:CA	2.56	0.93
1:f:559:MET:SD	1:f:725:ARG:CA	2.56	0.93
1:g:559:MET:SD	1:g:725:ARG:CA	2.56	0.93
1:v:243:SER:HB3	1:v:245:ARG:HH12	1.32	0.93
1:V:436:MET:SD	1:V:471:MET:CG	2.57	0.93
1:W:436:MET:SD	1:W:471:MET:CG	2.57	0.93
1:1:243:SER:HB3	1:1:245:ARG:HH12	1.32	0.93
1:c:559:MET:SD	1:c:725:ARG:CA	2.56	0.93
1:h:436:MET:SD	1:h:471:MET:CG	2.57	0.93
1:l:436:MET:SD	1:l:471:MET:CG	2.57	0.93
1:K:559:MET:SD	1:K:725:ARG:CA	2.56	0.93
1:Q:243:SER:HB3	1:Q:245:ARG:HH12	1.32	0.93
1:Q:559:MET:SD	1:Q:725:ARG:CA	2.56	0.93
1:2:243:SER:HB3	1:2:245:ARG:HH12	1.32	0.93
1:j:559:MET:SD	1:j:725:ARG:CA	2.56	0.93
1:m:559:MET:SD	1:m:725:ARG:CA	2.56	0.93
1:y:559:MET:SD	1:y:725:ARG:CA	2.56	0.93
1:F:436:MET:SD	1:F:471:MET:CG	2.57	0.93
1:F:559:MET:SD	1:F:725:ARG:CA	2.56	0.93
1:W:559:MET:SD	1:W:725:ARG:CA	2.56	0.93
1:d:436:MET:SD	1:d:471:MET:CG	2.57	0.93
1:e:436:MET:SD	1:e:471:MET:CG	2.57	0.93
1:A:436:MET:SD	1:A:471:MET:CG	2.57	0.93
1:B:436:MET:SD	1:B:471:MET:CG	2.57	0.93
1:I:559:MET:SD	1:I:725:ARG:CA	2.56	0.93
1:J:559:MET:SD	1:J:725:ARG:CA	2.56	0.93
1:S:243:SER:HB3	1:S:245:ARG:HH12	1.32	0.93
1:n:559:MET:SD	1:n:725:ARG:CA	2.56	0.93
1:q:436:MET:SD	1:q:471:MET:CG	2.57	0.93
1:r:559:MET:SD	1:r:725:ARG:CA	2.56	0.93
1:7:436:MET:SD	1:7:471:MET:CG	2.57	0.93
1:E:436:MET:SD	1:E:471:MET:CG	2.57	0.93
1:L:559:MET:SD	1:L:725:ARG:CA	2.56	0.93
1:a:436:MET:SD	1:a:471:MET:CG	2.57	0.93
1:i:436:MET:SD	1:i:471:MET:CG	2.57	0.93
1:l:559:MET:SD	1:l:725:ARG:CA	2.56	0.93
1:o:559:MET:SD	1:o:725:ARG:CA	2.56	0.93
1:p:436:MET:SD	1:p:471:MET:CG	2.57	0.93
1:q:559:MET:SD	1:q:725:ARG:CA	2.56	0.93
1:s:559:MET:SD	1:s:725:ARG:CA	2.56	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:436:MET:SD	1:8:471:MET:CG	2.57	0.93
1:C:559:MET:SD	1:C:725:ARG:CA	2.56	0.93
1:D:436:MET:SD	1:D:471:MET:CG	2.57	0.93
1:6:559:MET:SD	1:6:725:ARG:CA	2.56	0.93
1:c:243:SER:HB3	1:c:245:ARG:HH12	1.32	0.93
1:d:559:MET:SD	1:d:725:ARG:CA	2.56	0.93
1:m:436:MET:SD	1:m:471:MET:CG	2.57	0.93
1:G:559:MET:SD	1:G:725:ARG:CA	2.56	0.92
1:Y:436:MET:SD	1:Y:471:MET:CG	2.57	0.92
1:a:243:SER:HB3	1:a:245:ARG:HH12	1.32	0.92
1:A:559:MET:SD	1:A:725:ARG:CA	2.56	0.92
1:B:559:MET:SD	1:B:725:ARG:CA	2.56	0.92
1:K:436:MET:SD	1:K:471:MET:CG	2.57	0.92
1:N:559:MET:SD	1:N:725:ARG:CA	2.56	0.92
1:O:436:MET:SD	1:O:471:MET:CG	2.57	0.92
1:5:436:MET:SD	1:5:471:MET:CG	2.57	0.92
1:w:436:MET:SD	1:w:471:MET:CG	2.57	0.92
1:y:436:MET:SD	1:y:471:MET:CG	2.57	0.92
1:J:436:MET:SD	1:J:471:MET:CG	2.57	0.92
1:T:436:MET:SD	1:T:471:MET:CG	2.57	0.92
1:2:559:MET:SD	1:2:725:ARG:CA	2.56	0.92
1:k:559:MET:SD	1:k:725:ARG:CA	2.56	0.92
1:p:559:MET:SD	1:p:725:ARG:CA	2.56	0.92
1:D:559:MET:SD	1:D:725:ARG:CA	2.56	0.92
1:L:436:MET:SD	1:L:471:MET:CG	2.57	0.92
1:S:436:MET:SD	1:S:471:MET:CG	2.57	0.92
1:U:559:MET:SD	1:U:725:ARG:CA	2.56	0.92
1:W:243:SER:HB3	1:W:245:ARG:HH12	1.32	0.92
1:4:559:MET:SD	1:4:725:ARG:CA	2.56	0.92
1:e:243:SER:HB3	1:e:245:ARG:HH12	1.32	0.92
1:k:243:SER:HB3	1:k:245:ARG:HH12	1.32	0.92
1:o:436:MET:SD	1:o:471:MET:CG	2.57	0.92
1:u:559:MET:SD	1:u:725:ARG:CA	2.56	0.92
1:D:243:SER:HB3	1:D:245:ARG:HH12	1.32	0.92
1:H:559:MET:SD	1:H:725:ARG:CA	2.56	0.92
1:3:559:MET:SD	1:3:725:ARG:CA	2.56	0.92
1:6:243:SER:HB3	1:6:245:ARG:HH12	1.32	0.92
1:a:559:MET:SD	1:a:725:ARG:CA	2.56	0.92
1:v:559:MET:SD	1:v:725:ARG:CA	2.56	0.92
1:x:559:MET:SD	1:x:725:ARG:CA	2.56	0.92
1:C:436:MET:SD	1:C:471:MET:CG	2.57	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:243:SER:HB3	1:G:245:ARG:HH12	1.32	0.92
1:H:243:SER:HB3	1:H:245:ARG:HH12	1.32	0.92
1:u:436:MET:SD	1:u:471:MET:CG	2.57	0.92
1:H:436:MET:SD	1:H:471:MET:CG	2.57	0.92
1:M:243:SER:HB3	1:M:245:ARG:HH12	1.32	0.92
1:M:559:MET:SD	1:M:725:ARG:CA	2.56	0.92
1:N:436:MET:SD	1:N:471:MET:CG	2.57	0.92
1:P:243:SER:HB3	1:P:245:ARG:HH12	1.32	0.92
1:2:436:MET:SD	1:2:471:MET:CG	2.57	0.92
1:6:436:MET:SD	1:6:471:MET:CG	2.57	0.92
1:k:436:MET:SD	1:k:471:MET:CG	2.57	0.92
1:n:436:MET:SD	1:n:471:MET:CG	2.57	0.92
1:A:243:SER:HB3	1:A:245:ARG:HH12	1.32	0.92
1:E:243:SER:HB3	1:E:245:ARG:HH12	1.32	0.92
1:8:559:MET:SD	1:8:725:ARG:CA	2.56	0.92
1:N:243:SER:HB3	1:N:245:ARG:HH12	1.32	0.92
1:t:559:MET:SD	1:t:725:ARG:CA	2.56	0.92
1:M:436:MET:SD	1:M:471:MET:CG	2.57	0.92
1:R:436:MET:SD	1:R:471:MET:CG	2.57	0.92
1:X:436:MET:SD	1:X:471:MET:CG	2.57	0.92
1:5:559:MET:SD	1:5:725:ARG:CA	2.56	0.92
1:b:243:SER:HB3	1:b:245:ARG:HH12	1.32	0.92
1:f:436:MET:SD	1:f:471:MET:CG	2.57	0.92
1:l:243:SER:HB3	1:l:245:ARG:HH12	1.32	0.92
1:q:243:SER:HB3	1:q:245:ARG:HH12	1.32	0.92
1:r:243:SER:HB3	1:r:245:ARG:HH12	1.32	0.92
1:t:243:SER:HB3	1:t:245:ARG:HH12	1.32	0.92
1:t:436:MET:SD	1:t:471:MET:CG	2.57	0.92
1:v:436:MET:SD	1:v:471:MET:CG	2.57	0.92
1:7:559:MET:SD	1:7:725:ARG:CA	2.56	0.92
1:U:436:MET:SD	1:U:471:MET:CG	2.57	0.91
1:4:436:MET:SD	1:4:471:MET:CG	2.57	0.91
1:g:436:MET:SD	1:g:471:MET:CG	2.57	0.91
1:j:243:SER:HB3	1:j:245:ARG:HH12	1.32	0.91
1:r:436:MET:SD	1:r:471:MET:CG	2.57	0.91
1:O:559:MET:SD	1:O:725:ARG:CA	2.56	0.91
1:P:436:MET:SD	1:P:471:MET:CG	2.57	0.91
1:1:436:MET:SD	1:1:471:MET:CG	2.57	0.91
1:z:436:MET:SD	1:z:471:MET:CG	2.57	0.91
1:G:436:MET:SD	1:G:471:MET:CG	2.57	0.91
1:x:436:MET:SD	1:x:471:MET:CG	2.57	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:243:SER:HB3	1:Z:245:ARG:HH12	1.32	0.91
1:3:436:MET:SD	1:3:471:MET:CG	2.57	0.91
1:b:436:MET:SD	1:b:471:MET:CG	2.57	0.91
1:j:436:MET:SD	1:j:471:MET:CG	2.57	0.91
1:Q:436:MET:SD	1:Q:471:MET:CG	2.57	0.91
1:U:243:SER:HB3	1:U:245:ARG:HH12	1.32	0.91
1:Z:436:MET:SD	1:Z:471:MET:CG	2.57	0.91
1:3:243:SER:HB3	1:3:245:ARG:HH12	1.32	0.91
1:c:436:MET:SD	1:c:471:MET:CG	2.57	0.91
1:p:243:SER:HB3	1:p:245:ARG:HH12	1.32	0.91
1:B:243:SER:HB3	1:B:245:ARG:HH12	1.32	0.91
1:I:436:MET:SD	1:I:471:MET:CG	2.57	0.91
1:4:243:SER:HB3	1:4:245:ARG:HH12	1.32	0.91
1:s:436:MET:SD	1:s:471:MET:CG	2.57	0.91
1:x:243:SER:HB3	1:x:245:ARG:HH12	1.32	0.91
1:d:332:LYS:NZ	1:r:657:ASP:OD2	2.04	0.90
1:O:332:LYS:NZ	1:P:657:ASP:OD2	2.05	0.90
1:5:332:LYS:NZ	1:b:657:ASP:OD2	2.05	0.90
1:K:332:LYS:NZ	1:L:657:ASP:OD2	2.05	0.90
1:V:657:ASP:OD2	1:W:332:LYS:NZ	2.05	0.90
1:h:657:ASP:OD2	1:l:332:LYS:NZ	2.05	0.90
1:o:657:ASP:OD2	1:y:332:LYS:NZ	2.05	0.90
1:a:657:ASP:OD2	1:e:332:LYS:NZ	2.05	0.89
1:n:657:ASP:OD2	1:s:332:LYS:NZ	2.05	0.89
1:D:657:ASP:OD2	1:E:332:LYS:NZ	2.05	0.89
1:X:332:LYS:NZ	1:Y:657:ASP:OD2	2.05	0.89
1:I:332:LYS:NZ	1:J:657:ASP:OD2	2.05	0.89
1:g:332:LYS:NZ	1:m:657:ASP:OD2	2.05	0.89
1:B:657:ASP:OD2	1:C:332:LYS:NZ	2.05	0.89
1:J:332:LYS:NZ	1:1:657:ASP:OD2	2.05	0.89
1:l:657:ASP:OD2	1:r:332:LYS:NZ	2.06	0.89
1:n:332:LYS:NZ	1:z:657:ASP:OD2	2.05	0.89
1:A:332:LYS:NZ	1:E:657:ASP:OD2	2.06	0.89
1:G:332:LYS:NZ	1:W:657:ASP:OD2	2.06	0.89
1:O:657:ASP:OD2	1:4:332:LYS:NZ	2.05	0.89
1:S:332:LYS:NZ	1:4:657:ASP:OD2	2.06	0.89
1:T:332:LYS:NZ	1:U:657:ASP:OD2	2.06	0.89
1:U:332:LYS:NZ	1:5:657:ASP:OD2	2.05	0.89
1:A:657:ASP:OD2	1:B:332:LYS:NZ	2.05	0.89
1:F:332:LYS:NZ	1:G:657:ASP:OD2	2.05	0.89
1:L:243:SER:HB3	1:L:245:ARG:HH12	1.32	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:657:ASP:OD2	1:u:332:LYS:NZ	2.06	0.89
1:Q:332:LYS:NZ	1:S:657:ASP:OD2	2.05	0.89
1:T:657:ASP:OD2	1:c:332:LYS:NZ	2.05	0.89
1:Z:657:ASP:OD2	1:1:332:LYS:NZ	2.06	0.89
1:j:657:ASP:OD2	1:z:332:LYS:NZ	2.06	0.89
1:p:332:LYS:NZ	1:q:657:ASP:OD2	2.05	0.89
1:w:332:LYS:NZ	1:8:657:ASP:OD2	2.04	0.89
1:H:657:ASP:OD2	1:Z:332:LYS:NZ	2.06	0.89
1:L:332:LYS:NZ	1:2:657:ASP:OD2	2.05	0.89
1:e:657:ASP:OD2	1:q:332:LYS:NZ	2.06	0.89
1:f:657:ASP:OD2	1:h:332:LYS:NZ	2.05	0.89
1:o:332:LYS:NZ	1:v:657:ASP:OD2	2.05	0.89
1:M:332:LYS:NZ	1:N:657:ASP:OD2	2.06	0.88
1:6:657:ASP:OD2	1:t:332:LYS:NZ	2.06	0.88
1:d:657:ASP:OD2	1:f:332:LYS:NZ	2.05	0.88
1:j:332:LYS:NZ	1:k:657:ASP:OD2	2.05	0.88
1:o:243:SER:HB3	1:o:245:ARG:HH12	1.32	0.88
1:N:332:LYS:NZ	1:g:657:ASP:OD2	2.05	0.88
1:R:657:ASP:OD2	1:V:332:LYS:NZ	2.05	0.88
1:X:657:ASP:OD2	1:6:332:LYS:NZ	2.05	0.88
1:i:332:LYS:NZ	1:7:657:ASP:OD2	2.05	0.88
1:K:294:SER:HB3	1:L:399:TYR:CZ	2.09	0.88
1:Y:332:LYS:NZ	1:x:657:ASP:OD2	2.06	0.88
1:p:294:SER:HB3	1:q:399:TYR:CZ	2.09	0.88
1:F:657:ASP:OD2	1:R:332:LYS:NZ	2.06	0.88
1:O:294:SER:HB3	1:P:399:TYR:CZ	2.09	0.88
1:Y:294:SER:HB3	1:x:399:TYR:CZ	2.09	0.88
1:3:399:TYR:CZ	1:m:294:SER:HB3	2.09	0.88
1:A:399:TYR:CZ	1:B:294:SER:HB3	2.09	0.88
1:L:294:SER:HB3	1:2:399:TYR:CZ	2.09	0.88
1:N:294:SER:HB3	1:g:399:TYR:CZ	2.09	0.88
1:X:294:SER:HB3	1:Y:399:TYR:CZ	2.09	0.88
1:X:399:TYR:CZ	1:6:294:SER:HB3	2.09	0.88
1:3:657:ASP:OD2	1:m:332:LYS:NZ	2.06	0.88
1:5:294:SER:HB3	1:b:399:TYR:CZ	2.09	0.88
1:o:294:SER:HB3	1:v:399:TYR:CZ	2.09	0.88
1:H:332:LYS:NZ	1:I:657:ASP:OD2	2.06	0.87
1:a:332:LYS:NZ	1:u:657:ASP:OD2	2.06	0.87
1:g:294:SER:HB3	1:m:399:TYR:CZ	2.09	0.87
1:o:399:TYR:CZ	1:y:294:SER:HB3	2.09	0.87
1:C:657:ASP:OD2	1:D:332:LYS:NZ	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:657:ASP:OD2	1:3:332:LYS:NZ	2.05	0.87
1:k:332:LYS:NZ	1:s:657:ASP:OD2	2.06	0.87
1:P:294:SER:HB3	1:Q:399:TYR:CZ	2.09	0.87
1:P:332:LYS:NZ	1:Q:657:ASP:OD2	2.06	0.87
1:2:332:LYS:NZ	1:i:657:ASP:OD2	2.06	0.87
1:t:657:ASP:OD2	1:x:332:LYS:NZ	2.06	0.87
1:y:657:ASP:OD2	1:8:332:LYS:NZ	2.06	0.87
1:H:436:MET:HE1	1:H:471:MET:HG2	1.57	0.87
1:M:399:TYR:CZ	1:3:294:SER:HB3	2.10	0.87
1:Z:399:TYR:CZ	1:1:294:SER:HB3	2.09	0.87
1:6:399:TYR:CZ	1:t:294:SER:HB3	2.09	0.87
1:b:294:SER:HB3	1:c:399:TYR:CZ	2.10	0.87
1:b:332:LYS:NZ	1:c:657:ASP:OD2	2.06	0.87
1:K:657:ASP:OD2	1:7:332:LYS:NZ	2.06	0.87
1:Q:294:SER:HB3	1:S:399:TYR:CZ	2.09	0.87
1:4:436:MET:HE1	1:4:471:MET:HG2	1.57	0.87
1:j:399:TYR:CZ	1:z:294:SER:HB3	2.09	0.87
1:k:436:MET:HE1	1:k:471:MET:HG2	1.57	0.87
1:J:294:SER:HB3	1:1:399:TYR:CZ	2.09	0.87
1:J:436:MET:HE1	1:J:471:MET:HG2	1.57	0.87
1:T:294:SER:HB3	1:U:399:TYR:CZ	2.10	0.87
1:U:436:MET:HE1	1:U:471:MET:HG2	1.57	0.87
1:n:294:SER:HB3	1:z:399:TYR:CZ	2.09	0.87
1:p:436:MET:HE1	1:p:471:MET:HG2	1.57	0.87
1:t:399:TYR:CZ	1:x:294:SER:HB3	2.10	0.87
1:B:436:MET:HE1	1:B:471:MET:HG2	1.57	0.87
1:F:294:SER:HB3	1:G:399:TYR:CZ	2.10	0.87
1:K:436:MET:HE1	1:K:471:MET:HG2	1.57	0.87
1:S:294:SER:HB3	1:4:399:TYR:CZ	2.10	0.87
1:j:294:SER:HB3	1:k:399:TYR:CZ	2.10	0.87
1:l:399:TYR:CZ	1:r:294:SER:HB3	2.10	0.87
1:n:436:MET:HE1	1:n:471:MET:HG2	1.57	0.87
1:p:399:TYR:CZ	1:u:294:SER:HB3	2.09	0.87
1:H:399:TYR:CZ	1:Z:294:SER:HB3	2.10	0.87
1:I:294:SER:HB3	1:J:399:TYR:CZ	2.09	0.87
1:K:399:TYR:CZ	1:7:294:SER:HB3	2.10	0.87
1:T:399:TYR:CZ	1:c:294:SER:HB3	2.10	0.87
1:V:436:MET:HE1	1:V:471:MET:HG2	1.57	0.87
1:e:399:TYR:CZ	1:q:294:SER:HB3	2.10	0.87
1:h:436:MET:HE1	1:h:471:MET:HG2	1.57	0.87
1:n:399:TYR:CZ	1:s:294:SER:HB3	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:294:SER:HB3	1:W:399:TYR:CZ	2.10	0.86
1:I:436:MET:HE1	1:I:471:MET:HG2	1.57	0.86
1:T:436:MET:HE1	1:T:471:MET:HG2	1.57	0.86
1:y:399:TYR:CZ	1:8:294:SER:HB3	2.10	0.86
1:y:436:MET:HE1	1:y:471:MET:HG2	1.57	0.86
1:A:294:SER:HB3	1:E:399:TYR:CZ	2.10	0.86
1:S:436:MET:HE1	1:S:471:MET:HG2	1.57	0.86
1:Y:436:MET:HE1	1:Y:471:MET:HG2	1.57	0.86
1:d:294:SER:HB3	1:r:399:TYR:CZ	2.10	0.86
1:q:436:MET:HE1	1:q:471:MET:HG2	1.57	0.86
1:A:436:MET:HE1	1:A:471:MET:HG2	1.57	0.86
1:B:399:TYR:CZ	1:C:294:SER:HB3	2.09	0.86
1:Q:436:MET:HE1	1:Q:471:MET:HG2	1.57	0.86
1:c:436:MET:HE1	1:c:471:MET:HG2	1.57	0.86
1:v:332:LYS:NZ	1:w:657:ASP:OD2	2.07	0.86
1:m:436:MET:HE1	1:m:471:MET:HG2	1.57	0.86
1:s:436:MET:HE1	1:s:471:MET:HG2	1.57	0.86
1:w:294:SER:HB3	1:8:399:TYR:CZ	2.09	0.86
1:a:294:SER:HB3	1:u:399:TYR:CZ	2.09	0.86
1:e:436:MET:HE1	1:e:471:MET:HG2	1.57	0.86
1:t:436:MET:HE1	1:t:471:MET:HG2	1.57	0.86
1:v:294:SER:HB3	1:w:399:TYR:CZ	2.09	0.86
1:E:436:MET:HE1	1:E:471:MET:HG2	1.57	0.86
1:i:436:MET:HE1	1:i:471:MET:HG2	1.57	0.86
1:w:436:MET:HE1	1:w:471:MET:HG2	1.57	0.86
1:C:399:TYR:CZ	1:D:294:SER:HB3	2.09	0.86
1:M:436:MET:HE1	1:M:471:MET:HG2	1.57	0.86
1:i:294:SER:HB3	1:7:399:TYR:CZ	2.09	0.86
1:8:436:MET:HE1	1:8:471:MET:HG2	1.57	0.86
1:F:399:TYR:CZ	1:R:294:SER:HB3	2.09	0.86
1:h:399:TYR:CZ	1:l:294:SER:HB3	2.09	0.86
1:k:294:SER:HB3	1:s:399:TYR:CZ	2.10	0.86
1:P:436:MET:HE1	1:P:471:MET:HG2	1.57	0.86
1:2:294:SER:HB3	1:i:399:TYR:CZ	2.09	0.86
1:b:436:MET:HE1	1:b:471:MET:HG2	1.57	0.86
1:7:436:MET:HE1	1:7:471:MET:HG2	1.57	0.86
1:H:294:SER:HB3	1:I:399:TYR:CZ	2.10	0.85
1:R:436:MET:HE1	1:R:471:MET:HG2	1.57	0.85
1:V:399:TYR:CZ	1:W:294:SER:HB3	2.09	0.85
1:f:436:MET:HE1	1:f:471:MET:HG2	1.57	0.85
1:F:436:MET:HE1	1:F:471:MET:HG2	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:436:MET:HE1	1:L:471:MET:HG2	1.57	0.85
1:1:436:MET:HE1	1:1:471:MET:HG2	1.57	0.85
1:z:436:MET:HE1	1:z:471:MET:HG2	1.57	0.85
1:d:436:MET:HE1	1:d:471:MET:HG2	1.57	0.85
1:N:436:MET:HE1	1:N:471:MET:HG2	1.57	0.85
1:X:436:MET:HE1	1:X:471:MET:HG2	1.57	0.85
1:o:436:MET:HE1	1:o:471:MET:HG2	1.57	0.85
1:x:436:MET:HE1	1:x:471:MET:HG2	1.57	0.85
1:U:294:SER:HB3	1:5:399:TYR:CZ	2.09	0.85
1:3:436:MET:HE1	1:3:471:MET:HG2	1.57	0.85
1:u:436:MET:HE1	1:u:471:MET:HG2	1.57	0.85
1:O:399:TYR:CZ	1:4:294:SER:HB3	2.09	0.85
1:6:436:MET:HE1	1:6:471:MET:HG2	1.57	0.85
1:C:436:MET:HE1	1:C:471:MET:HG2	1.57	0.85
1:G:436:MET:HE1	1:G:471:MET:HG2	1.57	0.85
1:f:399:TYR:CZ	1:h:294:SER:HB3	2.09	0.85
1:g:436:MET:HE1	1:g:471:MET:HG2	1.57	0.84
1:R:399:TYR:CZ	1:V:294:SER:HB3	2.09	0.84
1:a:399:TYR:CZ	1:e:294:SER:HB3	2.10	0.84
1:r:436:MET:HE1	1:r:471:MET:HG2	1.57	0.84
1:D:399:TYR:CZ	1:E:294:SER:HB3	2.10	0.84
1:D:436:MET:HE1	1:D:471:MET:HG2	1.57	0.84
1:M:294:SER:HB3	1:N:399:TYR:CZ	2.09	0.84
1:v:436:MET:HE1	1:v:471:MET:HG2	1.57	0.84
1:W:436:MET:HE1	1:W:471:MET:HG2	1.57	0.84
1:a:436:MET:HE1	1:a:471:MET:HG2	1.57	0.84
1:l:436:MET:HE1	1:l:471:MET:HG2	1.57	0.84
1:2:436:MET:HE1	1:2:471:MET:HG2	1.57	0.84
1:5:436:MET:HE1	1:5:471:MET:HG2	1.57	0.83
1:Z:436:MET:HE1	1:Z:471:MET:HG2	1.57	0.83
1:O:436:MET:HE1	1:O:471:MET:HG2	1.57	0.83
1:j:436:MET:HE1	1:j:471:MET:HG2	1.57	0.83
1:K:559:MET:SD	1:K:726:PRO:N	2.52	0.83
1:M:559:MET:SD	1:M:726:PRO:N	2.52	0.83
1:N:559:MET:SD	1:N:726:PRO:N	2.52	0.83
1:6:559:MET:SD	1:6:726:PRO:N	2.52	0.83
1:c:485:ARG:NH1	1:e:582:THR:O	2.12	0.83
1:n:559:MET:SD	1:n:726:PRO:N	2.52	0.83
1:y:559:MET:SD	1:y:726:PRO:N	2.52	0.83
1:t:559:MET:SD	1:t:726:PRO:N	2.52	0.83
1:A:582:THR:O	1:G:485:ARG:NH1	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:559:MET:SD	1:F:726:PRO:N	2.52	0.83
1:3:559:MET:SD	1:3:726:PRO:N	2.52	0.83
1:d:559:MET:SD	1:d:726:PRO:N	2.52	0.83
1:i:559:MET:SD	1:i:726:PRO:N	2.52	0.83
1:x:559:MET:SD	1:x:726:PRO:N	2.52	0.83
1:J:559:MET:SD	1:J:726:PRO:N	2.52	0.83
1:R:559:MET:SD	1:R:726:PRO:N	2.52	0.83
1:f:559:MET:SD	1:f:726:PRO:N	2.52	0.83
1:w:559:MET:SD	1:w:726:PRO:N	2.52	0.83
1:D:559:MET:SD	1:D:726:PRO:N	2.52	0.82
1:W:559:MET:SD	1:W:726:PRO:N	2.52	0.82
1:l:559:MET:SD	1:l:726:PRO:N	2.52	0.82
1:E:582:THR:O	1:Q:485:ARG:NH1	2.13	0.82
1:G:559:MET:SD	1:G:726:PRO:N	2.52	0.82
1:I:559:MET:SD	1:I:726:PRO:N	2.52	0.82
1:u:559:MET:SD	1:u:726:PRO:N	2.52	0.82
1:C:485:ARG:NH1	1:M:582:THR:O	2.12	0.82
1:O:485:ARG:NH1	1:h:582:THR:O	2.12	0.82
1:V:582:THR:O	1:5:485:ARG:NH1	2.12	0.82
1:Z:559:MET:SD	1:Z:726:PRO:N	2.52	0.82
1:4:582:THR:O	1:f:485:ARG:NH1	2.12	0.82
1:a:559:MET:SD	1:a:726:PRO:N	2.52	0.82
1:j:559:MET:SD	1:j:726:PRO:N	2.52	0.82
1:r:559:MET:SD	1:r:726:PRO:N	2.52	0.82
1:t:582:THR:O	1:u:485:ARG:NH1	2.12	0.82
1:B:559:MET:SD	1:B:726:PRO:N	2.52	0.82
1:C:559:MET:SD	1:C:726:PRO:N	2.52	0.82
1:E:559:MET:SD	1:E:726:PRO:N	2.52	0.82
1:O:582:THR:O	1:g:485:ARG:NH1	2.13	0.82
1:X:485:ARG:NH1	1:5:582:THR:O	2.13	0.82
1:n:582:THR:O	1:o:485:ARG:NH1	2.12	0.82
1:p:559:MET:SD	1:p:726:PRO:N	2.52	0.82
1:q:582:THR:O	1:r:485:ARG:NH1	2.12	0.82
1:J:582:THR:O	1:L:485:ARG:NH1	2.12	0.82
1:Q:559:MET:SD	1:Q:726:PRO:N	2.52	0.82
1:R:485:ARG:NH1	1:U:582:THR:O	2.13	0.82
1:V:559:MET:SD	1:V:726:PRO:N	2.52	0.82
1:c:559:MET:SD	1:c:726:PRO:N	2.52	0.82
1:e:559:MET:SD	1:e:726:PRO:N	2.52	0.82
1:n:485:ARG:NH1	1:p:582:THR:O	2.13	0.82
1:B:582:THR:O	1:J:485:ARG:NH1	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:559:MET:SD	1:O:726:PRO:N	2.52	0.82
1:U:559:MET:SD	1:U:726:PRO:N	2.52	0.82
1:W:582:THR:O	1:Y:485:ARG:NH1	2.13	0.82
1:4:559:MET:SD	1:4:726:PRO:N	2.52	0.82
1:5:559:MET:SD	1:5:726:PRO:N	2.52	0.82
1:l:582:THR:O	1:m:485:ARG:NH1	2.13	0.82
1:s:559:MET:SD	1:s:726:PRO:N	2.52	0.82
1:y:485:ARG:NH1	1:7:582:THR:O	2.12	0.82
1:8:559:MET:SD	1:8:726:PRO:N	2.52	0.82
1:P:559:MET:SD	1:P:726:PRO:N	2.52	0.82
1:Y:559:MET:SD	1:Y:726:PRO:N	2.52	0.82
1:b:559:MET:SD	1:b:726:PRO:N	2.52	0.82
1:v:559:MET:SD	1:v:726:PRO:N	2.52	0.82
1:K:485:ARG:NH1	1:8:582:THR:O	2.12	0.82
1:L:559:MET:SD	1:L:726:PRO:N	2.52	0.82
1:1:582:THR:O	1:8:485:ARG:NH1	2.12	0.82
1:2:559:MET:SD	1:2:726:PRO:N	2.52	0.82
1:D:485:ARG:NH1	1:P:582:THR:O	2.12	0.82
1:T:582:THR:O	1:4:485:ARG:NH1	2.12	0.82
1:X:559:MET:SD	1:X:726:PRO:N	2.52	0.82
1:a:485:ARG:NH1	1:b:582:THR:O	2.12	0.82
1:g:559:MET:SD	1:g:726:PRO:N	2.52	0.82
1:h:559:MET:SD	1:h:726:PRO:N	2.52	0.82
1:o:559:MET:SD	1:o:726:PRO:N	2.52	0.82
1:z:582:THR:O	1:7:485:ARG:NH1	2.12	0.82
1:F:485:ARG:NH1	1:Q:582:THR:O	2.13	0.82
1:R:582:THR:O	1:S:485:ARG:NH1	2.12	0.82
1:S:582:THR:O	1:U:485:ARG:NH1	2.12	0.82
1:m:559:MET:SD	1:m:726:PRO:N	2.52	0.82
1:7:559:MET:SD	1:7:726:PRO:N	2.52	0.82
1:A:485:ARG:NH1	1:I:582:THR:O	2.12	0.81
1:C:582:THR:O	1:2:485:ARG:NH1	2.13	0.81
1:G:582:THR:O	1:I:485:ARG:NH1	2.12	0.81
1:T:485:ARG:NH1	1:f:582:THR:O	2.12	0.81
1:c:582:THR:O	1:d:485:ARG:NH1	2.13	0.81
1:r:582:THR:O	1:s:485:ARG:NH1	2.12	0.81
1:M:485:ARG:NH1	1:2:582:THR:O	2.12	0.81
1:k:582:THR:O	1:l:485:ARG:NH1	2.12	0.81
1:t:485:ARG:NH1	1:v:582:THR:O	2.12	0.81
1:D:582:THR:O	1:N:485:ARG:NH1	2.12	0.81
1:H:485:ARG:NH1	1:Y:582:THR:O	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:582:THR:O	1:W:485:ARG:NH1	2.12	0.81
1:S:559:MET:SD	1:S:726:PRO:N	2.52	0.81
1:T:559:MET:SD	1:T:726:PRO:N	2.52	0.81
1:1:559:MET:SD	1:1:726:PRO:N	2.52	0.81
1:u:582:THR:O	1:v:485:ARG:NH1	2.13	0.81
1:z:559:MET:SD	1:z:726:PRO:N	2.52	0.81
1:6:485:ARG:NH1	1:a:582:THR:O	2.12	0.81
1:k:485:ARG:NH1	1:m:582:THR:O	2.12	0.81
1:K:582:THR:O	1:1:485:ARG:NH1	2.13	0.81
1:k:559:MET:SD	1:k:726:PRO:N	2.52	0.81
1:q:485:ARG:NH1	1:s:582:THR:O	2.13	0.81
1:H:559:MET:SD	1:H:726:PRO:N	2.52	0.81
1:A:559:MET:SD	1:A:726:PRO:N	2.52	0.81
1:B:485:ARG:NH1	1:L:582:THR:O	2.13	0.81
1:q:559:MET:SD	1:q:726:PRO:N	2.52	0.81
1:y:582:THR:O	1:z:485:ARG:NH1	2.13	0.81
1:E:485:ARG:NH1	1:F:582:THR:O	2.13	0.81
1:o:582:THR:O	1:p:485:ARG:NH1	2.13	0.81
1:w:485:ARG:NH1	1:x:582:THR:O	2.12	0.81
1:6:582:THR:O	1:b:485:ARG:NH1	2.13	0.80
1:3:485:ARG:NH1	1:j:582:THR:O	2.13	0.80
1:N:582:THR:O	1:P:485:ARG:NH1	2.13	0.80
1:d:488:ARG:HD2	1:d:534:PHE:CE1	2.17	0.80
1:F:488:ARG:HD2	1:F:534:PHE:CE1	2.17	0.80
1:J:488:ARG:HD2	1:J:534:PHE:CE1	2.17	0.80
1:3:488:ARG:HD2	1:3:534:PHE:CE1	2.17	0.80
1:3:582:THR:O	1:i:485:ARG:NH1	2.13	0.80
1:i:582:THR:O	1:j:485:ARG:NH1	2.13	0.80
1:j:488:ARG:HD2	1:j:534:PHE:CE1	2.17	0.80
1:x:488:ARG:HD2	1:x:534:PHE:CE1	2.17	0.80
1:Z:488:ARG:HD2	1:Z:534:PHE:CE1	2.17	0.80
1:n:488:ARG:HD2	1:n:534:PHE:CE1	2.17	0.80
1:P:488:ARG:HD2	1:P:534:PHE:CE1	2.17	0.80
1:V:485:ARG:NH1	1:X:582:THR:O	2.13	0.80
1:V:488:ARG:HD2	1:V:534:PHE:CE1	2.17	0.80
1:Z:582:THR:O	1:x:485:ARG:NH1	2.13	0.80
1:z:488:ARG:HD2	1:z:534:PHE:CE1	2.17	0.80
1:M:488:ARG:HD2	1:M:534:PHE:CE1	2.17	0.80
1:b:488:ARG:HD2	1:b:534:PHE:CE1	2.17	0.80
1:h:488:ARG:HD2	1:h:534:PHE:CE1	2.17	0.80
1:D:488:ARG:HD2	1:D:534:PHE:CE1	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:488:ARG:HD2	1:1:534:PHE:CE1	2.17	0.80
1:a:488:ARG:HD2	1:a:534:PHE:CE1	2.17	0.80
1:g:582:THR:O	1:h:485:ARG:NH1	2.13	0.80
1:q:436:MET:CE	1:q:471:MET:CG	2.60	0.80
1:t:488:ARG:HD2	1:t:534:PHE:CE1	2.17	0.80
1:z:436:MET:CE	1:z:471:MET:CG	2.60	0.80
1:O:436:MET:CE	1:O:471:MET:CG	2.60	0.80
1:Q:436:MET:CE	1:Q:471:MET:CG	2.60	0.80
1:1:436:MET:CE	1:1:471:MET:CG	2.60	0.80
1:5:436:MET:CE	1:5:471:MET:CG	2.60	0.80
1:6:436:MET:CE	1:6:471:MET:CG	2.60	0.80
1:e:436:MET:CE	1:e:471:MET:CG	2.60	0.80
1:i:488:ARG:HD2	1:i:534:PHE:CE1	2.17	0.80
1:j:436:MET:CE	1:j:471:MET:CG	2.60	0.80
1:A:436:MET:CE	1:A:471:MET:CG	2.60	0.80
1:C:436:MET:CE	1:C:471:MET:CG	2.60	0.80
1:E:436:MET:CE	1:E:471:MET:CG	2.60	0.80
1:N:436:MET:CE	1:N:471:MET:CG	2.60	0.80
1:c:436:MET:CE	1:c:471:MET:CG	2.60	0.80
1:i:436:MET:CE	1:i:471:MET:CG	2.60	0.80
1:m:436:MET:CE	1:m:471:MET:CG	2.60	0.80
1:u:436:MET:CE	1:u:471:MET:CG	2.60	0.80
1:7:436:MET:CE	1:7:471:MET:CG	2.60	0.80
1:T:436:MET:CE	1:T:471:MET:CG	2.60	0.79
1:Y:436:MET:CE	1:Y:471:MET:CG	2.60	0.79
1:Z:436:MET:CE	1:Z:471:MET:CG	2.60	0.79
1:l:488:ARG:HD2	1:l:534:PHE:CE1	2.17	0.79
1:w:436:MET:CE	1:w:471:MET:CG	2.60	0.79
1:w:488:ARG:HD2	1:w:534:PHE:CE1	2.17	0.79
1:8:436:MET:CE	1:8:471:MET:CG	2.60	0.79
1:R:436:MET:CE	1:R:471:MET:CG	2.60	0.79
1:S:436:MET:CE	1:S:471:MET:CG	2.60	0.79
1:W:488:ARG:HD2	1:W:534:PHE:CE1	2.17	0.79
1:X:436:MET:CE	1:X:471:MET:CG	2.60	0.79
1:g:436:MET:CE	1:g:471:MET:CG	2.60	0.79
1:V:436:MET:CE	1:V:471:MET:CG	2.60	0.79
1:h:436:MET:CE	1:h:471:MET:CG	2.60	0.79
1:I:488:ARG:HD2	1:I:534:PHE:CE1	2.17	0.79
1:2:488:ARG:HD2	1:2:534:PHE:CE1	2.17	0.79
1:d:582:THR:O	1:e:485:ARG:NH1	2.14	0.79
1:f:436:MET:CE	1:f:471:MET:CG	2.60	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:488:ARG:HD2	1:v:534:PHE:CE1	2.17	0.79
1:y:436:MET:CE	1:y:471:MET:CG	2.60	0.79
1:G:488:ARG:HD2	1:G:534:PHE:CE1	2.17	0.79
1:H:488:ARG:HD2	1:H:534:PHE:CE1	2.17	0.79
1:K:436:MET:CE	1:K:471:MET:CG	2.60	0.79
1:2:434:ARG:HD2	1:2:471:MET:SD	2.23	0.79
1:k:488:ARG:HD2	1:k:534:PHE:CE1	2.17	0.79
1:p:488:ARG:HD2	1:p:534:PHE:CE1	2.17	0.79
1:s:488:ARG:HD2	1:s:534:PHE:CE1	2.17	0.79
1:t:434:ARG:HD2	1:t:471:MET:SD	2.23	0.79
1:v:434:ARG:HD2	1:v:471:MET:SD	2.23	0.79
1:v:436:MET:CE	1:v:471:MET:CG	2.60	0.79
1:y:352:LEU:HD11	1:y:400:PHE:HE2	1.48	0.79
1:C:434:ARG:HD2	1:C:471:MET:SD	2.23	0.79
1:E:434:ARG:HD2	1:E:471:MET:SD	2.23	0.79
1:K:352:LEU:HD11	1:K:400:PHE:HE2	1.48	0.79
1:M:434:ARG:HD2	1:M:471:MET:SD	2.23	0.79
1:W:434:ARG:HD2	1:W:471:MET:SD	2.23	0.79
1:Z:485:ARG:NH1	1:w:582:THR:O	2.15	0.79
1:1:352:LEU:HD11	1:1:400:PHE:HE2	1.48	0.79
1:3:434:ARG:HD2	1:3:471:MET:SD	2.23	0.79
1:l:434:ARG:HD2	1:l:471:MET:SD	2.23	0.79
1:r:488:ARG:HD2	1:r:534:PHE:CE1	2.17	0.79
1:A:434:ARG:HD2	1:A:471:MET:SD	2.23	0.79
1:B:436:MET:CE	1:B:471:MET:CG	2.60	0.79
1:B:488:ARG:HD2	1:B:534:PHE:CE1	2.17	0.79
1:F:436:MET:CE	1:F:471:MET:CG	2.60	0.79
1:K:434:ARG:HD2	1:K:471:MET:SD	2.23	0.79
1:R:488:ARG:HD2	1:R:534:PHE:CE1	2.17	0.79
1:S:488:ARG:HD2	1:S:534:PHE:CE1	2.17	0.79
1:2:436:MET:CE	1:2:471:MET:CG	2.60	0.79
1:3:352:LEU:HD11	1:3:400:PHE:HE2	1.48	0.79
1:4:436:MET:CE	1:4:471:MET:CG	2.60	0.79
1:d:436:MET:CE	1:d:471:MET:CG	2.60	0.79
1:e:434:ARG:HD2	1:e:471:MET:SD	2.23	0.79
1:p:436:MET:CE	1:p:471:MET:CG	2.60	0.79
1:u:434:ARG:HD2	1:u:471:MET:SD	2.23	0.79
1:x:352:LEU:HD11	1:x:400:PHE:HE2	1.48	0.79
1:7:434:ARG:HD2	1:7:471:MET:SD	2.23	0.79
1:7:488:ARG:HD2	1:7:534:PHE:CE1	2.17	0.79
1:8:434:ARG:HD2	1:8:471:MET:SD	2.23	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:488:ARG:HD2	1:8:534:PHE:CE1	2.17	0.79
1:D:434:ARG:HD2	1:D:471:MET:SD	2.23	0.79
1:E:488:ARG:HD2	1:E:534:PHE:CE1	2.17	0.79
1:N:488:ARG:HD2	1:N:534:PHE:CE1	2.17	0.79
1:P:436:MET:CE	1:P:471:MET:CG	2.60	0.79
1:S:352:LEU:HD11	1:S:400:PHE:HE2	1.48	0.79
1:S:434:ARG:HD2	1:S:471:MET:SD	2.23	0.79
1:T:352:LEU:HD11	1:T:400:PHE:HE2	1.48	0.79
1:T:434:ARG:HD2	1:T:471:MET:SD	2.23	0.79
1:U:352:LEU:HD11	1:U:400:PHE:HE2	1.48	0.79
1:U:436:MET:CE	1:U:471:MET:CG	2.60	0.79
1:X:434:ARG:HD2	1:X:471:MET:SD	2.23	0.79
1:4:352:LEU:HD11	1:4:400:PHE:HE2	1.48	0.79
1:6:488:ARG:HD2	1:6:534:PHE:CE1	2.17	0.79
1:c:352:LEU:HD11	1:c:400:PHE:HE2	1.48	0.79
1:e:488:ARG:HD2	1:e:534:PHE:CE1	2.17	0.79
1:f:488:ARG:HD2	1:f:534:PHE:CE1	2.17	0.79
1:q:434:ARG:HD2	1:q:471:MET:SD	2.23	0.79
1:x:434:ARG:HD2	1:x:471:MET:SD	2.23	0.79
1:y:434:ARG:HD2	1:y:471:MET:SD	2.23	0.79
1:L:436:MET:CE	1:L:471:MET:CG	2.60	0.79
1:O:434:ARG:HD2	1:O:471:MET:SD	2.23	0.79
1:O:488:ARG:HD2	1:O:534:PHE:CE1	2.17	0.79
1:Q:352:LEU:HD11	1:Q:400:PHE:HE2	1.48	0.79
1:a:434:ARG:HD2	1:a:471:MET:SD	2.23	0.79
1:b:436:MET:CE	1:b:471:MET:CG	2.60	0.79
1:g:434:ARG:HD2	1:g:471:MET:SD	2.23	0.79
1:o:436:MET:CE	1:o:471:MET:CG	2.60	0.79
1:s:434:ARG:HD2	1:s:471:MET:SD	2.23	0.79
1:t:352:LEU:HD11	1:t:400:PHE:HE2	1.48	0.79
1:y:488:ARG:HD2	1:y:534:PHE:CE1	2.17	0.79
1:z:352:LEU:HD11	1:z:400:PHE:HE2	1.48	0.79
1:A:488:ARG:HD2	1:A:534:PHE:CE1	2.17	0.79
1:I:434:ARG:HD2	1:I:471:MET:SD	2.23	0.79
1:L:434:ARG:HD2	1:L:471:MET:SD	2.23	0.79
1:T:488:ARG:HD2	1:T:534:PHE:CE1	2.17	0.79
1:V:434:ARG:HD2	1:V:471:MET:SD	2.23	0.79
1:4:488:ARG:HD2	1:4:534:PHE:CE1	2.17	0.79
1:5:434:ARG:HD2	1:5:471:MET:SD	2.23	0.79
1:a:436:MET:CE	1:a:471:MET:CG	2.60	0.79
1:c:488:ARG:HD2	1:c:534:PHE:CE1	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:488:ARG:HD2	1:g:534:PHE:CE1	2.17	0.79
1:o:434:ARG:HD2	1:o:471:MET:SD	2.23	0.79
1:q:488:ARG:HD2	1:q:534:PHE:CE1	2.17	0.79
1:x:436:MET:CE	1:x:471:MET:CG	2.60	0.79
1:B:434:ARG:HD2	1:B:471:MET:SD	2.23	0.78
1:G:436:MET:CE	1:G:471:MET:CG	2.60	0.78
1:J:436:MET:CE	1:J:471:MET:CG	2.60	0.78
1:K:488:ARG:HD2	1:K:534:PHE:CE1	2.17	0.78
1:P:434:ARG:HD2	1:P:471:MET:SD	2.23	0.78
1:Q:488:ARG:HD2	1:Q:534:PHE:CE1	2.17	0.78
1:U:434:ARG:HD2	1:U:471:MET:SD	2.23	0.78
1:U:488:ARG:HD2	1:U:534:PHE:CE1	2.17	0.78
1:3:436:MET:CE	1:3:471:MET:CG	2.60	0.78
1:4:434:ARG:HD2	1:4:471:MET:SD	2.23	0.78
1:5:488:ARG:HD2	1:5:534:PHE:CE1	2.17	0.78
1:m:352:LEU:HD11	1:m:400:PHE:HE2	1.48	0.78
1:r:436:MET:CE	1:r:471:MET:CG	2.60	0.78
1:s:436:MET:CE	1:s:471:MET:CG	2.60	0.78
1:D:436:MET:CE	1:D:471:MET:CG	2.60	0.78
1:F:434:ARG:HD2	1:F:471:MET:SD	2.23	0.78
1:I:436:MET:CE	1:I:471:MET:CG	2.60	0.78
1:M:352:LEU:HD11	1:M:400:PHE:HE2	1.48	0.78
1:R:434:ARG:HD2	1:R:471:MET:SD	2.23	0.78
1:X:488:ARG:HD2	1:X:534:PHE:CE1	2.17	0.78
1:Y:352:LEU:HD11	1:Y:400:PHE:HE2	1.48	0.78
1:b:434:ARG:HD2	1:b:471:MET:SD	2.23	0.78
1:f:434:ARG:HD2	1:f:471:MET:SD	2.23	0.78
1:h:352:LEU:HD11	1:h:400:PHE:HE2	1.48	0.78
1:h:434:ARG:HD2	1:h:471:MET:SD	2.23	0.78
1:n:436:MET:CE	1:n:471:MET:CG	2.60	0.78
1:u:488:ARG:HD2	1:u:534:PHE:CE1	2.17	0.78
1:Q:434:ARG:HD2	1:Q:471:MET:SD	2.23	0.78
1:d:434:ARG:HD2	1:d:471:MET:SD	2.23	0.78
1:p:434:ARG:HD2	1:p:471:MET:SD	2.23	0.78
1:C:488:ARG:HD2	1:C:534:PHE:CE1	2.17	0.78
1:H:436:MET:CE	1:H:471:MET:CG	2.60	0.78
1:M:436:MET:CE	1:M:471:MET:CG	2.60	0.78
1:V:352:LEU:HD11	1:V:400:PHE:HE2	1.48	0.78
1:6:434:ARG:HD2	1:6:471:MET:SD	2.23	0.78
1:k:436:MET:CE	1:k:471:MET:CG	2.60	0.78
1:G:352:LEU:HD11	1:G:400:PHE:HE2	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:352:LEU:HD11	1:L:400:PHE:HE2	1.48	0.78
1:N:434:ARG:HD2	1:N:471:MET:SD	2.23	0.78
1:m:488:ARG:HD2	1:m:534:PHE:CE1	2.17	0.78
1:t:436:MET:CE	1:t:471:MET:CG	2.60	0.78
1:A:559:MET:HE2	1:A:724:PRO:O	1.84	0.78
1:N:352:LEU:HD11	1:N:400:PHE:HE2	1.48	0.78
1:W:352:LEU:HD11	1:W:400:PHE:HE2	1.48	0.78
1:Y:488:ARG:HD2	1:Y:534:PHE:CE1	2.17	0.78
1:6:352:LEU:HD11	1:6:400:PHE:HE2	1.48	0.78
1:i:434:ARG:HD2	1:i:471:MET:SD	2.23	0.78
1:l:352:LEU:HD11	1:l:400:PHE:HE2	1.48	0.78
1:q:352:LEU:HD11	1:q:400:PHE:HE2	1.48	0.78
1:q:559:MET:HE2	1:q:724:PRO:O	1.84	0.78
1:r:352:LEU:HD11	1:r:400:PHE:HE2	1.48	0.78
1:C:352:LEU:HD11	1:C:400:PHE:HE2	1.48	0.78
1:o:352:LEU:HD11	1:o:400:PHE:HE2	1.48	0.78
1:w:434:ARG:HD2	1:w:471:MET:SD	2.23	0.78
1:Q:559:MET:HE2	1:Q:724:PRO:O	1.84	0.78
1:U:559:MET:HE2	1:U:724:PRO:O	1.84	0.78
1:W:436:MET:CE	1:W:471:MET:CG	2.60	0.78
1:W:559:MET:HE2	1:W:724:PRO:O	1.84	0.78
1:c:434:ARG:HD2	1:c:471:MET:SD	2.23	0.78
1:e:352:LEU:HD11	1:e:400:PHE:HE2	1.48	0.78
1:l:559:MET:HE2	1:l:724:PRO:O	1.84	0.78
1:o:488:ARG:HD2	1:o:534:PHE:CE1	2.17	0.78
1:u:352:LEU:HD11	1:u:400:PHE:HE2	1.48	0.78
1:A:352:LEU:HD11	1:A:400:PHE:HE2	1.48	0.78
1:X:559:MET:HE2	1:X:724:PRO:O	1.84	0.78
1:Y:559:MET:HE2	1:Y:724:PRO:O	1.84	0.78
1:4:559:MET:HE2	1:4:724:PRO:O	1.84	0.78
1:c:559:MET:HE2	1:c:724:PRO:O	1.84	0.78
1:m:434:ARG:HD2	1:m:471:MET:SD	2.23	0.78
1:m:559:MET:HE2	1:m:724:PRO:O	1.84	0.78
1:n:352:LEU:HD11	1:n:400:PHE:HE2	1.48	0.78
1:B:352:LEU:HD11	1:B:400:PHE:HE2	1.48	0.78
1:B:559:MET:HE2	1:B:724:PRO:O	1.84	0.78
1:H:434:ARG:HD2	1:H:471:MET:SD	2.23	0.78
1:J:352:LEU:HD11	1:J:400:PHE:HE2	1.48	0.78
1:L:488:ARG:HD2	1:L:534:PHE:CE1	2.17	0.78
1:Y:434:ARG:HD2	1:Y:471:MET:SD	2.23	0.78
1:1:434:ARG:HD2	1:1:471:MET:SD	2.23	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:559:MET:HE2	1:g:724:PRO:O	1.84	0.78
1:k:434:ARG:HD2	1:k:471:MET:SD	2.23	0.78
1:l:436:MET:CE	1:l:471:MET:CG	2.60	0.78
1:p:559:MET:HE2	1:p:724:PRO:O	1.84	0.78
1:n:434:ARG:HD2	1:n:471:MET:SD	2.23	0.77
1:E:352:LEU:HD11	1:E:400:PHE:HE2	1.48	0.77
1:J:434:ARG:HD2	1:J:471:MET:SD	2.23	0.77
1:L:559:MET:HE2	1:L:724:PRO:O	1.84	0.77
1:v:559:MET:HG2	1:v:726:PRO:HD3	1.66	0.77
1:z:434:ARG:HD2	1:z:471:MET:SD	2.23	0.77
1:H:559:MET:HE2	1:H:724:PRO:O	1.84	0.77
1:V:559:MET:HE2	1:V:724:PRO:O	1.84	0.77
1:Z:434:ARG:HD2	1:Z:471:MET:SD	2.23	0.77
1:Z:559:MET:HG2	1:Z:726:PRO:HD3	1.67	0.77
1:1:559:MET:HE2	1:1:724:PRO:O	1.84	0.77
1:2:352:LEU:HD11	1:2:400:PHE:HE2	1.48	0.77
1:2:559:MET:HG2	1:2:726:PRO:HD3	1.67	0.77
1:f:559:MET:HE2	1:f:724:PRO:O	1.84	0.77
1:g:352:LEU:HD11	1:g:400:PHE:HE2	1.48	0.77
1:p:352:LEU:HD11	1:p:400:PHE:HE2	1.48	0.77
1:F:559:MET:HE2	1:F:724:PRO:O	1.84	0.77
1:J:559:MET:HE2	1:J:724:PRO:O	1.84	0.77
1:P:352:LEU:HD11	1:P:400:PHE:HE2	1.48	0.77
1:2:559:MET:HE2	1:2:724:PRO:O	1.84	0.77
1:3:559:MET:HG2	1:3:726:PRO:HD3	1.67	0.77
1:h:559:MET:HE2	1:h:724:PRO:O	1.84	0.77
1:j:434:ARG:HD2	1:j:471:MET:SD	2.23	0.77
1:k:559:MET:HE2	1:k:724:PRO:O	1.84	0.77
1:o:559:MET:HE2	1:o:724:PRO:O	1.84	0.77
1:u:559:MET:HE2	1:u:724:PRO:O	1.84	0.77
1:v:559:MET:HE2	1:v:724:PRO:O	1.84	0.77
1:y:559:MET:HE2	1:y:724:PRO:O	1.84	0.77
1:z:559:MET:HE2	1:z:724:PRO:O	1.84	0.77
1:8:559:MET:HG2	1:8:726:PRO:HD3	1.67	0.77
1:G:559:MET:HE2	1:G:724:PRO:O	1.84	0.77
1:K:559:MET:HE2	1:K:724:PRO:O	1.84	0.77
1:R:559:MET:HE2	1:R:724:PRO:O	1.84	0.77
1:5:559:MET:HE2	1:5:724:PRO:O	1.84	0.77
1:a:559:MET:HE2	1:a:724:PRO:O	1.84	0.77
1:j:352:LEU:HD11	1:j:400:PHE:HE2	1.48	0.77
1:j:559:MET:HG2	1:j:726:PRO:HD3	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:559:MET:HE2	1:n:724:PRO:O	1.84	0.77
1:r:559:MET:HE2	1:r:724:PRO:O	1.84	0.77
1:v:352:LEU:HD11	1:v:400:PHE:HE2	1.48	0.77
1:x:559:MET:HG2	1:x:726:PRO:HD3	1.67	0.77
1:N:559:MET:HE2	1:N:724:PRO:O	1.84	0.77
1:O:559:MET:HE2	1:O:724:PRO:O	1.84	0.77
1:Z:352:LEU:HD11	1:Z:400:PHE:HE2	1.48	0.77
1:d:559:MET:HE2	1:d:724:PRO:O	1.84	0.77
1:k:559:MET:HG2	1:k:726:PRO:HD3	1.67	0.77
1:D:559:MET:HE2	1:D:724:PRO:O	1.84	0.77
1:H:559:MET:HG2	1:H:726:PRO:HD3	1.67	0.77
1:I:559:MET:HE2	1:I:724:PRO:O	1.84	0.77
1:O:352:LEU:HD11	1:O:400:PHE:HE2	1.48	0.77
1:X:352:LEU:HD11	1:X:400:PHE:HE2	1.48	0.77
1:6:559:MET:HE2	1:6:724:PRO:O	1.84	0.77
1:s:559:MET:HE2	1:s:724:PRO:O	1.84	0.77
1:7:559:MET:HG2	1:7:726:PRO:HD3	1.67	0.77
1:C:559:MET:HE2	1:C:724:PRO:O	1.84	0.77
1:T:559:MET:HE2	1:T:724:PRO:O	1.84	0.77
1:X:559:MET:HG2	1:X:726:PRO:HD3	1.67	0.77
1:Y:559:MET:HG2	1:Y:726:PRO:HD3	1.67	0.77
1:5:352:LEU:HD11	1:5:400:PHE:HE2	1.48	0.77
1:b:352:LEU:HD11	1:b:400:PHE:HE2	1.48	0.77
1:n:559:MET:HG2	1:n:726:PRO:HD3	1.67	0.77
1:J:559:MET:HG2	1:J:726:PRO:HD3	1.67	0.77
1:d:352:LEU:HD11	1:d:400:PHE:HE2	1.48	0.77
1:m:559:MET:HG2	1:m:726:PRO:HD3	1.67	0.77
1:r:434:ARG:HD2	1:r:471:MET:SD	2.23	0.77
1:8:352:LEU:HD11	1:8:400:PHE:HE2	1.48	0.77
1:S:559:MET:HE2	1:S:724:PRO:O	1.84	0.77
1:g:559:MET:HG2	1:g:726:PRO:HD3	1.67	0.77
1:k:352:LEU:HD11	1:k:400:PHE:HE2	1.48	0.77
1:p:559:MET:HG2	1:p:726:PRO:HD3	1.67	0.77
1:w:559:MET:HE2	1:w:724:PRO:O	1.84	0.77
1:x:559:MET:HE2	1:x:724:PRO:O	1.84	0.77
1:E:559:MET:HE2	1:E:724:PRO:O	1.84	0.76
1:F:352:LEU:HD11	1:F:400:PHE:HE2	1.48	0.76
1:G:434:ARG:HD2	1:G:471:MET:SD	2.23	0.76
1:a:352:LEU:HD11	1:a:400:PHE:HE2	1.48	0.76
1:v:224:SER:HA	1:w:406:ARG:HD3	1.67	0.76
1:7:352:LEU:HD11	1:7:400:PHE:HE2	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:559:MET:HE2	1:7:724:PRO:O	1.84	0.76
1:B:559:MET:HG2	1:B:726:PRO:HD3	1.67	0.76
1:U:559:MET:HG2	1:U:726:PRO:HD3	1.67	0.76
1:3:559:MET:HE2	1:3:724:PRO:O	1.84	0.76
1:4:559:MET:HG2	1:4:726:PRO:HD3	1.67	0.76
1:6:559:MET:HG2	1:6:726:PRO:HD3	1.67	0.76
1:d:406:ARG:HD3	1:f:224:SER:HA	1.66	0.76
1:8:559:MET:HE2	1:8:724:PRO:O	1.84	0.76
1:H:352:LEU:HD11	1:H:400:PHE:HE2	1.48	0.76
1:N:559:MET:HG2	1:N:726:PRO:HD3	1.67	0.76
1:Z:559:MET:HE2	1:Z:724:PRO:O	1.84	0.76
1:e:559:MET:HE2	1:e:724:PRO:O	1.84	0.76
1:i:559:MET:HE2	1:i:724:PRO:O	1.84	0.76
1:s:352:LEU:HD11	1:s:400:PHE:HE2	1.48	0.76
1:s:559:MET:HG2	1:s:726:PRO:HD3	1.67	0.76
1:D:352:LEU:HD11	1:D:400:PHE:HE2	1.48	0.76
1:j:559:MET:HE2	1:j:724:PRO:O	1.84	0.76
1:I:352:LEU:HD11	1:I:400:PHE:HE2	1.48	0.76
1:i:559:MET:HG2	1:i:726:PRO:HD3	1.67	0.76
1:G:559:MET:HG2	1:G:726:PRO:HD3	1.67	0.76
1:I:559:MET:HG2	1:I:726:PRO:HD3	1.67	0.76
1:P:559:MET:HE2	1:P:724:PRO:O	1.84	0.76
1:b:559:MET:HE2	1:b:724:PRO:O	1.84	0.76
1:r:559:MET:HG2	1:r:726:PRO:HD3	1.66	0.76
1:w:559:MET:HG2	1:w:726:PRO:HD3	1.66	0.76
1:2:224:SER:HA	1:i:406:ARG:HD3	1.68	0.76
1:c:271:ASP:O	1:e:434:ARG:NH2	2.19	0.76
1:f:352:LEU:HD11	1:f:400:PHE:HE2	1.48	0.76
1:A:434:ARG:NH2	1:G:271:ASP:O	2.19	0.76
1:K:559:MET:HG2	1:K:726:PRO:HD3	1.67	0.76
1:i:352:LEU:HD11	1:i:400:PHE:HE2	1.48	0.76
1:n:271:ASP:O	1:p:434:ARG:NH2	2.20	0.76
1:p:658:PRO:HB2	1:u:373:MET:HE2	1.68	0.76
1:B:434:ARG:NH2	1:J:271:ASP:O	2.20	0.75
1:K:271:ASP:O	1:8:434:ARG:NH2	2.20	0.75
1:P:224:SER:HA	1:Q:406:ARG:HD3	1.68	0.75
1:R:352:LEU:HD11	1:R:400:PHE:HE2	1.48	0.75
1:b:224:SER:HA	1:c:406:ARG:HD3	1.68	0.75
1:A:224:SER:HA	1:E:406:ARG:HD3	1.69	0.75
1:B:658:PRO:HB2	1:C:373:MET:HE2	1.69	0.75
1:M:559:MET:HE2	1:M:724:PRO:O	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:559:MET:HG2	1:e:726:PRO:HD3	1.67	0.75
1:r:434:ARG:NH2	1:s:271:ASP:O	2.19	0.75
1:t:559:MET:HE2	1:t:724:PRO:O	1.84	0.75
1:y:271:ASP:O	1:7:434:ARG:NH2	2.20	0.75
1:y:559:MET:HG2	1:y:726:PRO:HD3	1.67	0.75
1:E:434:ARG:NH2	1:Q:271:ASP:O	2.20	0.75
1:O:658:PRO:HB2	1:4:373:MET:HE2	1.69	0.75
1:U:373:MET:HE2	1:5:658:PRO:HB2	1.69	0.75
1:X:271:ASP:O	1:5:434:ARG:NH2	2.20	0.75
1:d:658:PRO:HB2	1:f:373:MET:HE2	1.68	0.75
1:E:559:MET:HG2	1:E:726:PRO:HD3	1.67	0.75
1:G:434:ARG:NH2	1:I:271:ASP:O	2.20	0.75
1:H:373:MET:HE2	1:I:658:PRO:HB2	1.69	0.75
1:L:559:MET:HG2	1:L:726:PRO:HD3	1.67	0.75
1:N:434:ARG:NH2	1:P:271:ASP:O	2.20	0.75
1:O:434:ARG:NH2	1:g:271:ASP:O	2.20	0.75
1:6:434:ARG:NH2	1:b:271:ASP:O	2.20	0.75
1:a:559:MET:HG2	1:a:726:PRO:HD3	1.67	0.75
1:k:373:MET:HE2	1:s:658:PRO:HB2	1.69	0.75
1:t:271:ASP:O	1:v:434:ARG:NH2	2.20	0.75
1:w:352:LEU:HD11	1:w:400:PHE:HE2	1.48	0.75
1:C:406:ARG:HD3	1:D:224:SER:HA	1.69	0.75
1:D:559:MET:HG2	1:D:726:PRO:HD3	1.67	0.75
1:F:271:ASP:O	1:Q:434:ARG:NH2	2.20	0.75
1:J:434:ARG:NH2	1:L:271:ASP:O	2.20	0.75
1:M:271:ASP:O	1:2:434:ARG:NH2	2.20	0.75
1:R:559:MET:HG2	1:R:726:PRO:HD3	1.67	0.75
1:X:406:ARG:HD3	1:6:224:SER:HA	1.69	0.75
1:n:434:ARG:NH2	1:o:271:ASP:O	2.20	0.75
1:N:224:SER:HA	1:g:406:ARG:HD3	1.69	0.75
1:S:224:SER:HA	1:4:406:ARG:HD3	1.69	0.75
1:Z:658:PRO:HB2	1:1:373:MET:HE2	1.69	0.75
1:e:406:ARG:HD3	1:q:224:SER:HA	1.69	0.75
1:f:559:MET:HG2	1:f:726:PRO:HD3	1.67	0.75
1:g:373:MET:HE2	1:m:658:PRO:HB2	1.69	0.75
1:j:658:PRO:HB2	1:z:373:MET:HE2	1.69	0.75
1:q:434:ARG:NH2	1:r:271:ASP:O	2.20	0.75
1:C:271:ASP:O	1:M:434:ARG:NH2	2.20	0.75
1:G:224:SER:HA	1:W:406:ARG:HD3	1.69	0.75
1:S:434:ARG:NH2	1:U:271:ASP:O	2.20	0.75
1:X:373:MET:HE2	1:Y:658:PRO:HB2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:373:MET:HE2	1:c:658:PRO:HB2	1.68	0.75
1:A:271:ASP:O	1:I:434:ARG:NH2	2.20	0.75
1:Q:373:MET:HE2	1:S:658:PRO:HB2	1.69	0.75
1:T:224:SER:HA	1:U:406:ARG:HD3	1.69	0.75
1:T:434:ARG:NH2	1:4:271:ASP:O	2.20	0.75
1:T:559:MET:HG2	1:T:726:PRO:HD3	1.67	0.75
1:V:658:PRO:HB2	1:W:373:MET:HE2	1.69	0.75
1:a:224:SER:HA	1:u:406:ARG:HD3	1.69	0.75
1:o:434:ARG:NH2	1:p:271:ASP:O	2.20	0.75
1:o:559:MET:HG2	1:o:726:PRO:HD3	1.67	0.75
1:B:271:ASP:O	1:L:434:ARG:NH2	2.20	0.75
1:T:658:PRO:HB2	1:c:373:MET:HE2	1.69	0.75
1:Z:271:ASP:O	1:w:434:ARG:NH2	2.19	0.75
1:h:658:PRO:HB2	1:l:373:MET:HE2	1.69	0.75
1:i:434:ARG:NH2	1:j:271:ASP:O	2.20	0.75
1:k:434:ARG:NH2	1:l:271:ASP:O	2.20	0.75
1:q:271:ASP:O	1:s:434:ARG:NH2	2.20	0.75
1:u:434:ARG:NH2	1:v:271:ASP:O	2.20	0.75
1:z:434:ARG:NH2	1:7:271:ASP:O	2.20	0.75
1:F:658:PRO:HB2	1:R:373:MET:HE2	1.69	0.74
1:H:434:ARG:NH2	1:W:271:ASP:O	2.20	0.74
1:J:224:SER:HA	1:1:406:ARG:HD3	1.69	0.74
1:R:434:ARG:NH2	1:S:271:ASP:O	2.20	0.74
1:T:271:ASP:O	1:f:434:ARG:NH2	2.20	0.74
1:V:434:ARG:NH2	1:5:271:ASP:O	2.20	0.74
1:1:434:ARG:NH2	1:8:271:ASP:O	2.20	0.74
1:3:434:ARG:NH2	1:i:271:ASP:O	2.20	0.74
1:E:271:ASP:O	1:F:434:ARG:NH2	2.20	0.74
1:H:658:PRO:HB2	1:Z:373:MET:HE2	1.69	0.74
1:O:271:ASP:O	1:h:434:ARG:NH2	2.20	0.74
1:X:224:SER:HA	1:Y:406:ARG:HD3	1.69	0.74
1:a:373:MET:HE2	1:u:658:PRO:HB2	1.69	0.74
1:g:434:ARG:NH2	1:h:271:ASP:O	2.20	0.74
1:j:373:MET:HE2	1:k:658:PRO:HB2	1.69	0.74
1:l:406:ARG:HD3	1:r:224:SER:HA	1.69	0.74
1:o:373:MET:HE2	1:v:658:PRO:HB2	1.69	0.74
1:p:373:MET:HE2	1:q:658:PRO:HB2	1.69	0.74
1:t:434:ARG:NH2	1:u:271:ASP:O	2.20	0.74
1:y:406:ARG:HD3	1:8:224:SER:HA	1.69	0.74
1:A:658:PRO:HB2	1:B:373:MET:HE2	1.69	0.74
1:C:434:ARG:NH2	1:2:271:ASP:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:658:PRO:HB2	1:D:373:MET:HE2	1.69	0.74
1:F:406:ARG:HD3	1:R:224:SER:HA	1.69	0.74
1:K:406:ARG:HD3	1:7:224:SER:HA	1.69	0.74
1:L:373:MET:HE2	1:2:658:PRO:HB2	1.69	0.74
1:N:373:MET:HE2	1:g:658:PRO:HB2	1.69	0.74
1:O:406:ARG:HD3	1:4:224:SER:HA	1.69	0.74
1:P:373:MET:HE2	1:Q:658:PRO:HB2	1.69	0.74
1:S:559:MET:HG2	1:S:726:PRO:HD3	1.67	0.74
1:U:224:SER:HA	1:5:406:ARG:HD3	1.69	0.74
1:g:224:SER:HA	1:m:406:ARG:HD3	1.69	0.74
1:j:406:ARG:HD3	1:z:224:SER:HA	1.69	0.74
1:n:224:SER:HA	1:z:406:ARG:HD3	1.69	0.74
1:I:373:MET:HE2	1:J:658:PRO:HB2	1.69	0.74
1:R:406:ARG:HD3	1:V:224:SER:HA	1.69	0.74
1:V:271:ASP:O	1:X:434:ARG:NH2	2.20	0.74
1:w:271:ASP:O	1:x:434:ARG:NH2	2.20	0.74
1:y:658:PRO:HB2	1:8:373:MET:HE2	1.69	0.74
1:D:271:ASP:O	1:P:434:ARG:NH2	2.20	0.74
1:D:406:ARG:HD3	1:E:224:SER:HA	1.69	0.74
1:K:434:ARG:NH2	1:1:271:ASP:O	2.20	0.74
1:K:658:PRO:HB2	1:7:373:MET:HE2	1.69	0.74
1:P:559:MET:HG2	1:P:726:PRO:HD3	1.67	0.74
1:f:406:ARG:HD3	1:h:224:SER:HA	1.70	0.74
1:n:658:PRO:HB2	1:s:373:MET:HE2	1.69	0.74
1:p:406:ARG:HD3	1:u:224:SER:HA	1.69	0.74
1:y:434:ARG:NH2	1:z:271:ASP:O	2.20	0.74
1:F:373:MET:HE2	1:G:658:PRO:HB2	1.69	0.74
1:G:373:MET:HE2	1:W:658:PRO:HB2	1.69	0.74
1:M:658:PRO:HB2	1:3:373:MET:HE2	1.69	0.74
1:R:271:ASP:O	1:U:434:ARG:NH2	2.20	0.74
1:X:658:PRO:HB2	1:6:373:MET:HE2	1.69	0.74
1:Z:406:ARG:HD3	1:1:224:SER:HA	1.69	0.74
1:6:271:ASP:O	1:a:434:ARG:NH2	2.20	0.74
1:l:658:PRO:HB2	1:r:373:MET:HE2	1.69	0.74
1:t:406:ARG:HD3	1:x:224:SER:HA	1.69	0.74
1:w:373:MET:HE2	1:8:658:PRO:HB2	1.69	0.74
1:D:434:ARG:NH2	1:N:271:ASP:O	2.20	0.74
1:1:559:MET:HG2	1:1:726:PRO:HD3	1.67	0.74
1:a:271:ASP:O	1:b:434:ARG:NH2	2.20	0.74
1:a:406:ARG:HD3	1:e:224:SER:HA	1.69	0.74
1:M:406:ARG:HD3	1:3:224:SER:HA	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:559:MET:HG2	1:M:726:PRO:HD3	1.67	0.74
1:Y:224:SER:HA	1:x:406:ARG:HD3	1.69	0.74
1:4:434:ARG:NH2	1:f:271:ASP:O	2.20	0.74
1:B:406:ARG:HD3	1:C:224:SER:HA	1.69	0.74
1:H:271:ASP:O	1:Y:434:ARG:NH2	2.20	0.74
1:J:373:MET:HE2	1:1:658:PRO:HB2	1.69	0.74
1:S:373:MET:HE2	1:4:658:PRO:HB2	1.69	0.74
1:W:559:MET:HG2	1:W:726:PRO:HD3	1.67	0.74
1:Z:434:ARG:NH2	1:x:271:ASP:O	2.20	0.74
1:3:406:ARG:HD3	1:m:224:SER:HA	1.69	0.74
1:b:559:MET:HG2	1:b:726:PRO:HD3	1.67	0.74
1:i:373:MET:HE2	1:7:658:PRO:HB2	1.69	0.74
1:l:559:MET:HG2	1:l:726:PRO:HD3	1.67	0.74
1:n:373:MET:HE2	1:z:658:PRO:HB2	1.69	0.74
1:t:559:MET:HG2	1:t:726:PRO:HD3	1.67	0.74
1:t:658:PRO:HB2	1:x:373:MET:HE2	1.69	0.74
1:3:271:ASP:O	1:j:434:ARG:NH2	2.20	0.74
1:R:658:PRO:HB2	1:V:373:MET:HE2	1.69	0.73
1:T:373:MET:HE2	1:U:658:PRO:HB2	1.69	0.73
1:a:658:PRO:HB2	1:e:373:MET:HE2	1.69	0.73
1:d:434:ARG:NH2	1:e:271:ASP:O	2.20	0.73
1:k:271:ASP:O	1:m:434:ARG:NH2	2.20	0.73
1:v:373:MET:HE2	1:w:658:PRO:HB2	1.69	0.73
1:D:303:ASN:OD1	1:D:700:GLN:NE2	2.22	0.73
1:F:559:MET:HG2	1:F:726:PRO:HD3	1.67	0.73
1:L:303:ASN:OD1	1:L:700:GLN:NE2	2.22	0.73
1:M:224:SER:HA	1:N:406:ARG:HD3	1.69	0.73
1:V:559:MET:HG2	1:V:726:PRO:HD3	1.67	0.73
1:Z:303:ASN:OD1	1:Z:700:GLN:NE2	2.22	0.73
1:6:406:ARG:HD3	1:t:224:SER:HA	1.69	0.73
1:j:303:ASN:OD1	1:j:700:GLN:NE2	2.22	0.73
1:o:303:ASN:OD1	1:o:700:GLN:NE2	2.22	0.73
1:z:559:MET:HG2	1:z:726:PRO:HD3	1.67	0.73
1:G:303:ASN:OD1	1:G:700:GLN:NE2	2.22	0.73
1:H:436:MET:HE1	1:H:471:MET:CG	2.19	0.73
1:M:303:ASN:OD1	1:M:700:GLN:NE2	2.22	0.73
1:R:436:MET:HE1	1:R:471:MET:CG	2.19	0.73
1:2:373:MET:HE2	1:i:658:PRO:HB2	1.69	0.73
1:a:303:ASN:OD1	1:a:700:GLN:NE2	2.22	0.73
1:c:434:ARG:NH2	1:d:271:ASP:O	2.21	0.73
1:d:559:MET:HG2	1:d:726:PRO:HD3	1.67	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:559:MET:HG2	1:h:726:PRO:HD3	1.67	0.73
1:k:436:MET:HE1	1:k:471:MET:CG	2.19	0.73
1:l:434:ARG:NH2	1:m:271:ASP:O	2.20	0.73
1:r:303:ASN:OD1	1:r:700:GLN:NE2	2.22	0.73
1:v:303:ASN:OD1	1:v:700:GLN:NE2	2.22	0.73
1:J:436:MET:HE1	1:J:471:MET:CG	2.19	0.73
1:P:303:ASN:OD1	1:P:700:GLN:NE2	2.22	0.73
1:P:436:MET:HE1	1:P:471:MET:CG	2.19	0.73
1:V:303:ASN:OD1	1:V:700:GLN:NE2	2.22	0.73
1:W:434:ARG:NH2	1:Y:271:ASP:O	2.20	0.73
1:X:303:ASN:OD1	1:X:700:GLN:NE2	2.22	0.73
1:2:303:ASN:OD1	1:2:700:GLN:NE2	2.22	0.73
1:b:303:ASN:OD1	1:b:700:GLN:NE2	2.22	0.73
1:b:436:MET:HE1	1:b:471:MET:CG	2.19	0.73
1:e:658:PRO:HB2	1:q:373:MET:HE2	1.70	0.73
1:f:436:MET:HE1	1:f:471:MET:CG	2.19	0.73
1:f:658:PRO:HB2	1:h:373:MET:HE2	1.69	0.73
1:g:303:ASN:OD1	1:g:700:GLN:NE2	2.22	0.73
1:h:303:ASN:OD1	1:h:700:GLN:NE2	2.22	0.73
1:i:303:ASN:OD1	1:i:700:GLN:NE2	2.22	0.73
1:p:224:SER:HA	1:q:406:ARG:HD3	1.69	0.73
1:t:303:ASN:OD1	1:t:700:GLN:NE2	2.22	0.73
1:w:303:ASN:OD1	1:w:700:GLN:NE2	2.22	0.73
1:A:559:MET:HG2	1:A:726:PRO:HD3	1.67	0.73
1:D:658:PRO:HB2	1:E:373:MET:HE2	1.69	0.73
1:E:303:ASN:OD1	1:E:700:GLN:NE2	2.22	0.73
1:e:303:ASN:OD1	1:e:700:GLN:NE2	2.22	0.73
1:n:436:MET:HE1	1:n:471:MET:CG	2.19	0.73
1:p:303:ASN:OD1	1:p:700:GLN:NE2	2.22	0.73
1:y:303:ASN:OD1	1:y:700:GLN:NE2	2.22	0.73
1:A:373:MET:HE2	1:E:658:PRO:HB2	1.70	0.73
1:B:303:ASN:OD1	1:B:700:GLN:NE2	2.22	0.73
1:D:436:MET:SD	1:D:471:MET:SD	2.87	0.73
1:H:406:ARG:HD3	1:Z:224:SER:HA	1.69	0.73
1:J:303:ASN:OD1	1:J:700:GLN:NE2	2.22	0.73
1:K:303:ASN:OD1	1:K:700:GLN:NE2	2.22	0.73
1:O:436:MET:SD	1:O:471:MET:SD	2.87	0.73
1:Q:303:ASN:OD1	1:Q:700:GLN:NE2	2.22	0.73
1:S:303:ASN:OD1	1:S:700:GLN:NE2	2.22	0.73
1:V:406:ARG:HD3	1:W:224:SER:HA	1.69	0.73
1:X:436:MET:HE1	1:X:471:MET:CG	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:224:SER:HA	1:b:406:ARG:HD3	1.69	0.73
1:5:436:MET:SD	1:5:471:MET:SD	2.87	0.73
1:a:436:MET:SD	1:a:471:MET:SD	2.87	0.73
1:c:303:ASN:OD1	1:c:700:GLN:NE2	2.22	0.73
1:g:436:MET:HE1	1:g:471:MET:CG	2.19	0.73
1:h:406:ARG:HD3	1:l:224:SER:HA	1.69	0.73
1:j:224:SER:HA	1:k:406:ARG:HD3	1.69	0.73
1:w:436:MET:SD	1:w:471:MET:SD	2.87	0.73
1:A:303:ASN:OD1	1:A:700:GLN:NE2	2.22	0.73
1:A:436:MET:SD	1:A:471:MET:SD	2.87	0.73
1:J:436:MET:SD	1:J:471:MET:SD	2.87	0.73
1:K:224:SER:HA	1:L:406:ARG:HD3	1.69	0.73
1:K:436:MET:SD	1:K:471:MET:SD	2.87	0.73
1:N:436:MET:SD	1:N:471:MET:SD	2.87	0.73
1:Q:436:MET:SD	1:Q:471:MET:SD	2.87	0.73
1:T:303:ASN:OD1	1:T:700:GLN:NE2	2.22	0.73
1:3:658:PRO:HB2	1:m:373:MET:HE2	1.69	0.73
1:4:303:ASN:OD1	1:4:700:GLN:NE2	2.22	0.73
1:5:436:MET:HE1	1:5:471:MET:CG	2.19	0.73
1:a:436:MET:HE1	1:a:471:MET:CG	2.19	0.73
1:c:436:MET:SD	1:c:471:MET:SD	2.87	0.73
1:i:436:MET:SD	1:i:471:MET:SD	2.87	0.73
1:n:303:ASN:OD1	1:n:700:GLN:NE2	2.22	0.73
1:o:406:ARG:HD3	1:y:224:SER:HA	1.69	0.73
1:q:436:MET:SD	1:q:471:MET:SD	2.87	0.73
1:x:436:MET:HE1	1:x:471:MET:CG	2.19	0.73
1:y:436:MET:SD	1:y:471:MET:SD	2.87	0.73
1:7:303:ASN:OD1	1:7:700:GLN:NE2	2.22	0.73
1:D:436:MET:HE1	1:D:471:MET:CG	2.19	0.73
1:F:436:MET:SD	1:F:471:MET:SD	2.87	0.73
1:O:436:MET:HE1	1:O:471:MET:CG	2.19	0.73
1:U:303:ASN:OD1	1:U:700:GLN:NE2	2.22	0.73
1:Y:373:MET:HE2	1:x:658:PRO:HB2	1.69	0.73
1:1:436:MET:SD	1:1:471:MET:SD	2.87	0.73
1:3:303:ASN:OD1	1:3:700:GLN:NE2	2.22	0.73
1:3:436:MET:HE1	1:3:471:MET:CG	2.19	0.73
1:6:436:MET:SD	1:6:471:MET:SD	2.87	0.73
1:6:658:PRO:HB2	1:t:373:MET:HE2	1.69	0.73
1:d:436:MET:SD	1:d:471:MET:SD	2.87	0.73
1:n:436:MET:SD	1:n:471:MET:SD	2.87	0.73
1:o:224:SER:HA	1:v:406:ARG:HD3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:658:PRO:HB2	1:y:373:MET:HE2	1.68	0.73
1:q:303:ASN:OD1	1:q:700:GLN:NE2	2.22	0.73
1:8:303:ASN:OD1	1:8:700:GLN:NE2	2.22	0.73
1:O:224:SER:HA	1:P:406:ARG:HD3	1.69	0.73
1:S:436:MET:SD	1:S:471:MET:SD	2.87	0.73
1:S:436:MET:HE1	1:S:471:MET:CG	2.19	0.73
1:T:436:MET:SD	1:T:471:MET:SD	2.87	0.73
1:d:373:MET:HE2	1:r:658:PRO:HB2	1.70	0.73
1:q:559:MET:HG2	1:q:726:PRO:HD3	1.67	0.73
1:x:303:ASN:OD1	1:x:700:GLN:NE2	2.22	0.73
1:z:303:ASN:OD1	1:z:700:GLN:NE2	2.21	0.73
1:z:436:MET:SD	1:z:471:MET:SD	2.87	0.73
1:K:373:MET:HE2	1:L:658:PRO:HB2	1.69	0.73
1:W:436:MET:SD	1:W:471:MET:SD	2.87	0.73
1:W:436:MET:HE1	1:W:471:MET:CG	2.18	0.73
1:1:303:ASN:OD1	1:1:700:GLN:NE2	2.22	0.73
1:2:436:MET:SD	1:2:471:MET:SD	2.87	0.73
1:e:436:MET:SD	1:e:471:MET:SD	2.87	0.73
1:l:436:MET:SD	1:l:471:MET:SD	2.87	0.73
1:l:436:MET:HE1	1:l:471:MET:CG	2.19	0.73
1:p:436:MET:SD	1:p:471:MET:SD	2.87	0.73
1:v:436:MET:SD	1:v:471:MET:SD	2.87	0.73
1:A:406:ARG:HD3	1:B:224:SER:HA	1.70	0.72
1:B:436:MET:SD	1:B:471:MET:SD	2.87	0.72
1:E:436:MET:SD	1:E:471:MET:SD	2.87	0.72
1:H:224:SER:HA	1:I:406:ARG:HD3	1.69	0.72
1:L:224:SER:HA	1:2:406:ARG:HD3	1.69	0.72
1:M:373:MET:HE2	1:N:658:PRO:HB2	1.69	0.72
1:O:303:ASN:OD1	1:O:700:GLN:NE2	2.22	0.72
1:O:559:MET:HG2	1:O:726:PRO:HD3	1.67	0.72
1:T:436:MET:HE1	1:T:471:MET:CG	2.19	0.72
1:f:303:ASN:OD1	1:f:700:GLN:NE2	2.22	0.72
1:i:224:SER:HA	1:7:406:ARG:HD3	1.70	0.72
1:N:415:TYR:OH	1:N:642:HIS:O	2.07	0.72
1:U:436:MET:SD	1:U:471:MET:SD	2.87	0.72
1:W:303:ASN:OD1	1:W:700:GLN:NE2	2.22	0.72
1:W:415:TYR:OH	1:W:642:HIS:O	2.08	0.72
1:X:436:MET:SD	1:X:471:MET:SD	2.87	0.72
1:Y:303:ASN:OD1	1:Y:700:GLN:NE2	2.22	0.72
1:4:436:MET:SD	1:4:471:MET:SD	2.87	0.72
1:i:436:MET:HE1	1:i:471:MET:CG	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:224:SER:HA	1:s:406:ARG:HD3	1.69	0.72
1:l:415:TYR:OH	1:l:642:HIS:O	2.08	0.72
1:w:436:MET:HE1	1:w:471:MET:CG	2.19	0.72
1:H:436:MET:SD	1:H:471:MET:SD	2.87	0.72
1:R:303:ASN:OD1	1:R:700:GLN:NE2	2.22	0.72
1:Z:436:MET:SD	1:Z:471:MET:SD	2.87	0.72
1:3:436:MET:SD	1:3:471:MET:SD	2.87	0.72
1:5:303:ASN:OD1	1:5:700:GLN:NE2	2.22	0.72
1:5:373:MET:HE2	1:b:658:PRO:HB2	1.69	0.72
1:6:303:ASN:OD1	1:6:700:GLN:NE2	2.22	0.72
1:6:415:TYR:OH	1:6:642:HIS:O	2.08	0.72
1:b:415:TYR:OH	1:b:642:HIS:O	2.08	0.72
1:g:436:MET:SD	1:g:471:MET:SD	2.87	0.72
1:j:436:MET:SD	1:j:471:MET:SD	2.87	0.72
1:k:436:MET:SD	1:k:471:MET:SD	2.87	0.72
1:m:303:ASN:OD1	1:m:700:GLN:NE2	2.22	0.72
1:r:436:MET:SD	1:r:471:MET:SD	2.87	0.72
1:u:436:MET:SD	1:u:471:MET:SD	2.87	0.72
1:x:436:MET:SD	1:x:471:MET:SD	2.87	0.72
1:C:436:MET:SD	1:C:471:MET:SD	2.87	0.72
1:D:415:TYR:OH	1:D:642:HIS:O	2.07	0.72
1:H:303:ASN:OD1	1:H:700:GLN:NE2	2.22	0.72
1:I:224:SER:HA	1:J:406:ARG:HD3	1.69	0.72
1:I:415:TYR:OH	1:I:642:HIS:O	2.08	0.72
1:J:415:TYR:OH	1:J:642:HIS:O	2.08	0.72
1:M:415:TYR:OH	1:M:642:HIS:O	2.08	0.72
1:N:303:ASN:OD1	1:N:700:GLN:NE2	2.22	0.72
1:O:373:MET:HE2	1:P:658:PRO:HB2	1.69	0.72
1:P:415:TYR:OH	1:P:642:HIS:O	2.08	0.72
1:Q:436:MET:HE1	1:Q:471:MET:CG	2.19	0.72
1:V:436:MET:SD	1:V:471:MET:SD	2.87	0.72
1:Y:436:MET:SD	1:Y:471:MET:SD	2.87	0.72
1:1:415:TYR:OH	1:1:642:HIS:O	2.08	0.72
1:c:559:MET:HG2	1:c:726:PRO:HD3	1.67	0.72
1:h:436:MET:SD	1:h:471:MET:SD	2.87	0.72
1:k:303:ASN:OD1	1:k:700:GLN:NE2	2.22	0.72
1:l:303:ASN:OD1	1:l:700:GLN:NE2	2.22	0.72
1:m:436:MET:SD	1:m:471:MET:SD	2.87	0.72
1:n:406:ARG:HD3	1:s:224:SER:HA	1.69	0.72
1:t:415:TYR:OH	1:t:642:HIS:O	2.08	0.72
1:u:303:ASN:OD1	1:u:700:GLN:NE2	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:436:MET:HE1	1:u:471:MET:CG	2.19	0.72
1:C:436:MET:HE1	1:C:471:MET:CG	2.19	0.72
1:G:415:TYR:OH	1:G:642:HIS:O	2.08	0.72
1:G:436:MET:SD	1:G:471:MET:SD	2.87	0.72
1:c:436:MET:HE1	1:c:471:MET:CG	2.19	0.72
1:n:415:TYR:OH	1:n:642:HIS:O	2.08	0.72
1:r:415:TYR:OH	1:r:642:HIS:O	2.08	0.72
1:s:303:ASN:OD1	1:s:700:GLN:NE2	2.22	0.72
1:s:415:TYR:OH	1:s:642:HIS:O	2.08	0.72
1:z:415:TYR:OH	1:z:642:HIS:O	2.08	0.72
1:8:436:MET:HE1	1:8:471:MET:CG	2.19	0.72
1:C:303:ASN:OD1	1:C:700:GLN:NE2	2.22	0.72
1:I:303:ASN:OD1	1:I:700:GLN:NE2	2.22	0.72
1:R:436:MET:SD	1:R:471:MET:SD	2.87	0.72
1:S:415:TYR:OH	1:S:642:HIS:O	2.08	0.72
1:5:559:MET:HG2	1:5:726:PRO:HD3	1.66	0.72
1:a:415:TYR:OH	1:a:642:HIS:O	2.08	0.72
1:s:436:MET:SD	1:s:471:MET:SD	2.87	0.72
1:w:415:TYR:OH	1:w:642:HIS:O	2.08	0.72
1:7:436:MET:HE1	1:7:471:MET:CG	2.19	0.72
1:8:436:MET:SD	1:8:471:MET:SD	2.87	0.72
1:F:303:ASN:OD1	1:F:700:GLN:NE2	2.22	0.72
1:T:415:TYR:OH	1:T:642:HIS:O	2.07	0.72
1:d:303:ASN:OD1	1:d:700:GLN:NE2	2.21	0.72
1:f:436:MET:SD	1:f:471:MET:SD	2.87	0.72
1:i:415:TYR:OH	1:i:642:HIS:O	2.08	0.72
1:7:436:MET:SD	1:7:471:MET:SD	2.87	0.72
1:C:559:MET:HG2	1:C:726:PRO:HD3	1.67	0.72
1:I:436:MET:SD	1:I:471:MET:SD	2.87	0.72
1:M:436:MET:HE1	1:M:471:MET:CG	2.19	0.72
1:N:436:MET:HE1	1:N:471:MET:CG	2.19	0.72
1:Q:559:MET:HG2	1:Q:726:PRO:HD3	1.67	0.72
1:2:436:MET:HE1	1:2:471:MET:CG	2.19	0.72
1:6:436:MET:HE1	1:6:471:MET:CG	2.19	0.72
1:t:436:MET:HE1	1:t:471:MET:CG	2.19	0.72
1:u:559:MET:HG2	1:u:726:PRO:HD3	1.67	0.72
1:F:224:SER:HA	1:G:406:ARG:HD3	1.69	0.72
1:K:415:TYR:OH	1:K:642:HIS:O	2.08	0.72
1:j:436:MET:HE1	1:j:471:MET:CG	2.19	0.72
1:v:436:MET:HE1	1:v:471:MET:CG	2.19	0.72
1:y:415:TYR:OH	1:y:642:HIS:O	2.08	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:436:MET:HE1	1:y:471:MET:CG	2.19	0.72
1:K:436:MET:HE1	1:K:471:MET:CG	2.19	0.72
1:d:415:TYR:OH	1:d:642:HIS:O	2.08	0.72
1:h:415:TYR:OH	1:h:642:HIS:O	2.08	0.72
1:o:436:MET:SD	1:o:471:MET:SD	2.87	0.72
1:w:224:SER:HA	1:8:406:ARG:HD3	1.71	0.72
1:L:436:MET:SD	1:L:471:MET:SD	2.87	0.71
1:P:436:MET:SD	1:P:471:MET:SD	2.87	0.71
1:V:415:TYR:OH	1:V:642:HIS:O	2.08	0.71
1:Z:436:MET:HE1	1:Z:471:MET:CG	2.19	0.71
1:b:436:MET:SD	1:b:471:MET:SD	2.87	0.71
1:o:415:TYR:OH	1:o:642:HIS:O	2.08	0.71
1:t:436:MET:SD	1:t:471:MET:SD	2.87	0.71
1:A:415:TYR:OH	1:A:642:HIS:O	2.08	0.71
1:A:436:MET:SD	1:A:471:MET:HE2	2.31	0.71
1:E:436:MET:HE1	1:E:471:MET:CG	2.19	0.71
1:L:415:TYR:OH	1:L:642:HIS:O	2.08	0.71
1:M:436:MET:SD	1:M:471:MET:SD	2.87	0.71
1:P:436:MET:SD	1:P:471:MET:HE2	2.31	0.71
1:Y:436:MET:SD	1:Y:471:MET:HE2	2.31	0.71
1:2:415:TYR:OH	1:2:642:HIS:O	2.08	0.71
1:3:436:MET:SD	1:3:471:MET:HE2	2.30	0.71
1:4:436:MET:SD	1:4:471:MET:HE2	2.31	0.71
1:e:436:MET:HE1	1:e:471:MET:CG	2.19	0.71
1:q:436:MET:HE1	1:q:471:MET:CG	2.19	0.71
1:v:415:TYR:OH	1:v:642:HIS:O	2.08	0.71
1:x:436:MET:SD	1:x:471:MET:HE2	2.31	0.71
1:A:436:MET:HE1	1:A:471:MET:CG	2.19	0.71
1:F:415:TYR:OH	1:F:642:HIS:O	2.08	0.71
1:S:436:MET:SD	1:S:471:MET:HE2	2.31	0.71
1:T:406:ARG:HD3	1:c:224:SER:HA	1.70	0.71
1:T:436:MET:SD	1:T:471:MET:HE2	2.31	0.71
1:U:436:MET:SD	1:U:471:MET:HE2	2.31	0.71
1:b:436:MET:SD	1:b:471:MET:HE2	2.31	0.71
1:g:415:TYR:OH	1:g:642:HIS:O	2.08	0.71
1:j:415:TYR:OH	1:j:642:HIS:O	2.08	0.71
1:p:415:TYR:OH	1:p:642:HIS:O	2.08	0.71
1:q:415:TYR:OH	1:q:642:HIS:O	2.08	0.71
1:q:436:MET:SD	1:q:471:MET:HE2	2.31	0.71
1:E:415:TYR:OH	1:E:642:HIS:O	2.07	0.71
1:R:415:TYR:OH	1:R:642:HIS:O	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:415:TYR:OH	1:e:642:HIS:O	2.08	0.71
1:m:436:MET:SD	1:m:471:MET:HE2	2.31	0.71
1:B:415:TYR:OH	1:B:642:HIS:O	2.08	0.71
1:X:415:TYR:OH	1:X:642:HIS:O	2.08	0.71
1:Z:415:TYR:OH	1:Z:642:HIS:O	2.08	0.71
1:p:436:MET:HE1	1:p:471:MET:CG	2.19	0.71
1:s:436:MET:SD	1:s:471:MET:HE2	2.31	0.71
1:z:436:MET:SD	1:z:471:MET:HE2	2.31	0.71
1:I:436:MET:SD	1:I:471:MET:HE2	2.31	0.71
1:L:436:MET:HE1	1:L:471:MET:CG	2.19	0.71
1:L:490:SER:CA	1:L:534:PHE:HB3	2.21	0.71
1:O:415:TYR:OH	1:O:642:HIS:O	2.08	0.71
1:Q:224:SER:HA	1:S:406:ARG:HD3	1.70	0.71
1:Q:415:TYR:OH	1:Q:642:HIS:O	2.08	0.71
1:S:490:SER:CA	1:S:534:PHE:HB3	2.21	0.71
1:T:490:SER:CA	1:T:534:PHE:HB3	2.21	0.71
1:V:490:SER:CA	1:V:534:PHE:HB3	2.21	0.71
1:1:436:MET:SD	1:1:471:MET:HE2	2.31	0.71
1:3:415:TYR:OH	1:3:642:HIS:O	2.07	0.71
1:5:415:TYR:OH	1:5:642:HIS:O	2.08	0.71
1:5:490:SER:CA	1:5:534:PHE:HB3	2.21	0.71
1:a:490:SER:CA	1:a:534:PHE:HB3	2.21	0.71
1:c:415:TYR:OH	1:c:642:HIS:O	2.08	0.71
1:d:436:MET:HE1	1:d:471:MET:CG	2.19	0.71
1:f:415:TYR:OH	1:f:642:HIS:O	2.08	0.71
1:h:490:SER:CA	1:h:534:PHE:HB3	2.21	0.71
1:i:436:MET:SD	1:i:471:MET:HE2	2.31	0.71
1:o:490:SER:CA	1:o:534:PHE:HB3	2.21	0.71
1:p:436:MET:SD	1:p:471:MET:HE2	2.30	0.71
1:w:436:MET:SD	1:w:471:MET:HE2	2.31	0.71
1:x:415:TYR:OH	1:x:642:HIS:O	2.08	0.71
1:B:436:MET:HE1	1:B:471:MET:CG	2.19	0.71
1:C:436:MET:SD	1:C:471:MET:HE2	2.31	0.71
1:K:436:MET:SD	1:K:471:MET:HE2	2.31	0.71
1:O:490:SER:CA	1:O:534:PHE:HB3	2.21	0.71
1:V:436:MET:SD	1:V:471:MET:HE2	2.31	0.71
1:g:436:MET:SD	1:g:471:MET:HE2	2.31	0.71
1:h:436:MET:SD	1:h:471:MET:HE2	2.31	0.71
1:k:415:TYR:OH	1:k:642:HIS:O	2.08	0.71
1:o:436:MET:HE1	1:o:471:MET:CG	2.19	0.71
1:D:490:SER:CA	1:D:534:PHE:HB3	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:490:SER:CA	1:E:534:PHE:HB3	2.21	0.71
1:F:436:MET:HE1	1:F:471:MET:CG	2.19	0.71
1:G:436:MET:SD	1:G:471:MET:HE2	2.31	0.71
1:H:415:TYR:OH	1:H:642:HIS:O	2.08	0.71
1:R:559:MET:SD	1:R:725:ARG:C	2.74	0.71
1:X:436:MET:SD	1:X:471:MET:HE2	2.31	0.71
1:Y:415:TYR:OH	1:Y:642:HIS:O	2.08	0.71
1:n:436:MET:SD	1:n:471:MET:HE2	2.31	0.71
1:n:559:MET:SD	1:n:725:ARG:C	2.74	0.71
1:o:436:MET:SD	1:o:471:MET:HE2	2.31	0.71
1:r:436:MET:SD	1:r:471:MET:HE2	2.31	0.71
1:u:436:MET:SD	1:u:471:MET:HE2	2.31	0.71
1:y:436:MET:SD	1:y:471:MET:HE2	2.31	0.71
1:z:436:MET:HE1	1:z:471:MET:CG	2.19	0.71
1:B:436:MET:SD	1:B:471:MET:HE2	2.31	0.71
1:C:415:TYR:OH	1:C:642:HIS:O	2.07	0.71
1:E:559:MET:SD	1:E:725:ARG:C	2.74	0.71
1:H:436:MET:SD	1:H:471:MET:HE2	2.31	0.71
1:J:436:MET:SD	1:J:471:MET:HE2	2.31	0.71
1:J:559:MET:SD	1:J:725:ARG:C	2.74	0.71
1:K:559:MET:SD	1:K:725:ARG:C	2.74	0.71
1:L:436:MET:SD	1:L:471:MET:HE2	2.31	0.71
1:M:436:MET:SD	1:M:471:MET:HE2	2.31	0.71
1:N:436:MET:SD	1:N:471:MET:HE2	2.30	0.71
1:Q:436:MET:SD	1:Q:471:MET:HE2	2.31	0.71
1:Q:559:MET:SD	1:Q:725:ARG:C	2.74	0.71
1:U:415:TYR:OH	1:U:642:HIS:O	2.08	0.71
1:U:559:MET:SD	1:U:725:ARG:C	2.74	0.71
1:W:490:SER:CA	1:W:534:PHE:HB3	2.21	0.71
1:W:559:MET:SD	1:W:725:ARG:C	2.74	0.71
1:Y:436:MET:HE1	1:Y:471:MET:CG	2.19	0.71
1:4:415:TYR:OH	1:4:642:HIS:O	2.08	0.71
1:6:436:MET:SD	1:6:471:MET:HE2	2.31	0.71
1:c:559:MET:SD	1:c:725:ARG:C	2.74	0.71
1:d:436:MET:SD	1:d:471:MET:HE2	2.31	0.71
1:e:559:MET:SD	1:e:725:ARG:C	2.74	0.71
1:f:559:MET:SD	1:f:725:ARG:C	2.74	0.71
1:k:559:MET:SD	1:k:725:ARG:C	2.74	0.71
1:l:490:SER:CA	1:l:534:PHE:HB3	2.21	0.71
1:l:559:MET:SD	1:l:725:ARG:C	2.74	0.71
1:m:415:TYR:OH	1:m:642:HIS:O	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:559:MET:SD	1:y:725:ARG:C	2.74	0.71
1:E:436:MET:SD	1:E:471:MET:HE2	2.30	0.71
1:F:436:MET:SD	1:F:471:MET:HE2	2.31	0.71
1:G:559:MET:SD	1:G:725:ARG:C	2.74	0.71
1:I:490:SER:CA	1:I:534:PHE:HB3	2.21	0.71
1:R:436:MET:SD	1:R:471:MET:HE2	2.31	0.71
1:4:559:MET:SD	1:4:725:ARG:C	2.74	0.71
1:c:436:MET:SD	1:c:471:MET:HE2	2.31	0.71
1:B:559:MET:SD	1:B:725:ARG:C	2.74	0.70
1:C:559:MET:SD	1:C:725:ARG:C	2.74	0.70
1:H:559:MET:SD	1:H:725:ARG:C	2.74	0.70
1:P:559:MET:SD	1:P:725:ARG:C	2.74	0.70
1:Z:436:MET:SD	1:Z:471:MET:HE2	2.31	0.70
1:1:436:MET:HE1	1:1:471:MET:CG	2.19	0.70
1:f:436:MET:SD	1:f:471:MET:HE2	2.31	0.70
1:k:436:MET:SD	1:k:471:MET:HE2	2.31	0.70
1:p:559:MET:SD	1:p:725:ARG:C	2.74	0.70
1:s:490:SER:CA	1:s:534:PHE:HB3	2.21	0.70
1:u:415:TYR:OH	1:u:642:HIS:O	2.08	0.70
1:u:559:MET:SD	1:u:725:ARG:C	2.74	0.70
1:v:436:MET:SD	1:v:471:MET:HE2	2.31	0.70
1:7:436:MET:SD	1:7:471:MET:HE2	2.31	0.70
1:8:436:MET:SD	1:8:471:MET:HE2	2.31	0.70
1:D:559:MET:SD	1:D:725:ARG:C	2.74	0.70
1:D:612:VAL:O	1:D:729:THR:OG1	2.10	0.70
1:I:559:MET:SD	1:I:725:ARG:C	2.74	0.70
1:S:559:MET:SD	1:S:725:ARG:C	2.74	0.70
1:S:612:VAL:O	1:S:729:THR:OG1	2.10	0.70
1:T:559:MET:SD	1:T:725:ARG:C	2.74	0.70
1:2:436:MET:SD	1:2:471:MET:HE2	2.31	0.70
1:a:436:MET:SD	1:a:471:MET:HE2	2.31	0.70
1:b:559:MET:SD	1:b:725:ARG:C	2.74	0.70
1:h:612:VAL:O	1:h:729:THR:OG1	2.10	0.70
1:j:559:MET:SD	1:j:725:ARG:C	2.74	0.70
1:r:559:MET:SD	1:r:725:ARG:C	2.74	0.70
1:s:436:MET:HE1	1:s:471:MET:CG	2.19	0.70
1:t:436:MET:SD	1:t:471:MET:HE2	2.31	0.70
1:Q:612:VAL:O	1:Q:729:THR:OG1	2.10	0.70
1:T:612:VAL:O	1:T:729:THR:OG1	2.10	0.70
1:V:612:VAL:O	1:V:729:THR:OG1	2.10	0.70
1:X:612:VAL:O	1:X:729:THR:OG1	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:559:MET:SD	1:1:725:ARG:C	2.74	0.70
1:2:559:MET:SD	1:2:725:ARG:C	2.74	0.70
1:3:490:SER:CA	1:3:534:PHE:HB3	2.21	0.70
1:a:559:MET:SD	1:a:725:ARG:C	2.74	0.70
1:a:612:VAL:O	1:a:729:THR:OG1	2.10	0.70
1:c:612:VAL:O	1:c:729:THR:OG1	2.10	0.70
1:e:436:MET:SD	1:e:471:MET:HE2	2.31	0.70
1:g:612:VAL:O	1:g:729:THR:OG1	2.10	0.70
1:j:436:MET:SD	1:j:471:MET:HE2	2.31	0.70
1:l:436:MET:SD	1:l:471:MET:HE2	2.31	0.70
1:s:559:MET:SD	1:s:725:ARG:C	2.74	0.70
1:s:612:VAL:O	1:s:729:THR:OG1	2.10	0.70
1:v:559:MET:SD	1:v:725:ARG:C	2.74	0.70
1:z:559:MET:SD	1:z:725:ARG:C	2.74	0.70
1:D:436:MET:SD	1:D:471:MET:HE2	2.31	0.70
1:I:436:MET:HE1	1:I:471:MET:CG	2.18	0.70
1:I:612:VAL:O	1:I:729:THR:OG1	2.10	0.70
1:N:612:VAL:O	1:N:729:THR:OG1	2.10	0.70
1:W:436:MET:SD	1:W:471:MET:HE2	2.31	0.70
1:X:559:MET:SD	1:X:725:ARG:C	2.74	0.70
1:Z:559:MET:SD	1:Z:725:ARG:C	2.74	0.70
1:6:490:SER:CA	1:6:534:PHE:HB3	2.21	0.70
1:6:612:VAL:O	1:6:729:THR:OG1	2.10	0.70
1:d:612:VAL:O	1:d:729:THR:OG1	2.10	0.70
1:i:559:MET:SD	1:i:725:ARG:C	2.74	0.70
1:v:490:SER:CA	1:v:534:PHE:HB3	2.21	0.70
1:w:559:MET:SD	1:w:725:ARG:C	2.74	0.70
1:7:415:TYR:OH	1:7:642:HIS:O	2.08	0.70
1:F:612:VAL:O	1:F:729:THR:OG1	2.10	0.70
1:M:559:MET:SD	1:M:725:ARG:C	2.74	0.70
1:Y:559:MET:SD	1:Y:725:ARG:C	2.74	0.70
1:g:559:MET:SD	1:g:725:ARG:C	2.74	0.70
1:x:490:SER:CA	1:x:534:PHE:HB3	2.21	0.70
1:2:490:SER:CA	1:2:534:PHE:HB3	2.21	0.70
1:3:559:MET:SD	1:3:725:ARG:C	2.74	0.70
1:m:436:MET:HE1	1:m:471:MET:CG	2.19	0.70
1:x:559:MET:SD	1:x:725:ARG:C	2.74	0.70
1:C:612:VAL:O	1:C:729:THR:OG1	2.10	0.70
1:F:490:SER:CA	1:F:534:PHE:HB3	2.21	0.70
1:G:612:VAL:O	1:G:729:THR:OG1	2.10	0.70
1:L:612:VAL:O	1:L:729:THR:OG1	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:490:SER:CA	1:N:534:PHE:HB3	2.21	0.70
1:R:612:VAL:O	1:R:729:THR:OG1	2.10	0.70
1:U:436:MET:HE1	1:U:471:MET:CG	2.19	0.70
1:U:612:VAL:O	1:U:729:THR:OG1	2.10	0.70
1:m:559:MET:SD	1:m:725:ARG:C	2.74	0.70
1:8:415:TYR:OH	1:8:642:HIS:O	2.08	0.70
1:8:559:MET:SD	1:8:725:ARG:C	2.74	0.70
1:E:612:VAL:O	1:E:729:THR:OG1	2.10	0.70
1:Z:612:VAL:O	1:Z:729:THR:OG1	2.10	0.70
1:4:612:VAL:O	1:4:729:THR:OG1	2.10	0.70
1:5:559:MET:SD	1:5:725:ARG:C	2.74	0.70
1:e:612:VAL:O	1:e:729:THR:OG1	2.10	0.70
1:f:612:VAL:O	1:f:729:THR:OG1	2.10	0.70
1:j:612:VAL:O	1:j:729:THR:OG1	2.10	0.70
1:r:612:VAL:O	1:r:729:THR:OG1	2.10	0.70
1:O:436:MET:SD	1:O:471:MET:HE2	2.31	0.70
1:5:436:MET:SD	1:5:471:MET:HE2	2.31	0.70
1:h:559:MET:SD	1:h:725:ARG:C	2.74	0.70
1:n:612:VAL:O	1:n:729:THR:OG1	2.10	0.70
1:o:612:VAL:O	1:o:729:THR:OG1	2.10	0.70
1:r:436:MET:HE1	1:r:471:MET:CG	2.19	0.70
1:t:559:MET:SD	1:t:725:ARG:C	2.74	0.70
1:u:612:VAL:O	1:u:729:THR:OG1	2.10	0.70
1:A:490:SER:CA	1:A:534:PHE:HB3	2.21	0.70
1:A:559:MET:SD	1:A:725:ARG:C	2.74	0.70
1:F:559:MET:SD	1:F:725:ARG:C	2.74	0.70
1:N:559:MET:SD	1:N:725:ARG:C	2.74	0.70
1:4:436:MET:HE1	1:4:471:MET:CG	2.19	0.70
1:d:490:SER:CA	1:d:534:PHE:HB3	2.21	0.70
1:o:559:MET:SD	1:o:725:ARG:C	2.74	0.70
1:t:612:VAL:O	1:t:729:THR:OG1	2.10	0.70
1:7:559:MET:SD	1:7:725:ARG:C	2.74	0.70
1:J:612:VAL:O	1:J:729:THR:OG1	2.10	0.69
1:M:612:VAL:O	1:M:729:THR:OG1	2.10	0.69
1:O:559:MET:SD	1:O:725:ARG:C	2.74	0.69
1:V:559:MET:SD	1:V:725:ARG:C	2.74	0.69
1:6:559:MET:SD	1:6:725:ARG:C	2.74	0.69
1:d:559:MET:SD	1:d:725:ARG:C	2.74	0.69
1:G:436:MET:HE1	1:G:471:MET:CG	2.19	0.69
1:1:612:VAL:O	1:1:729:THR:OG1	2.10	0.69
1:q:490:SER:CA	1:q:534:PHE:HB3	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:490:SER:CA	1:y:534:PHE:HB3	2.21	0.69
1:L:559:MET:SD	1:L:725:ARG:C	2.74	0.69
1:j:490:SER:CA	1:j:534:PHE:HB3	2.21	0.69
1:q:559:MET:SD	1:q:725:ARG:C	2.74	0.69
1:w:612:VAL:O	1:w:729:THR:OG1	2.10	0.69
1:z:612:VAL:O	1:z:729:THR:OG1	2.10	0.69
1:W:612:VAL:O	1:W:729:THR:OG1	2.10	0.69
1:d:404:MET:HG2	1:f:228:TRP:H	1.57	0.69
1:i:612:VAL:O	1:i:729:THR:OG1	2.10	0.69
1:l:612:VAL:O	1:l:729:THR:OG1	2.10	0.69
1:d:224:SER:HA	1:r:406:ARG:HD3	1.73	0.69
1:y:612:VAL:O	1:y:729:THR:OG1	2.10	0.69
1:X:490:SER:CA	1:X:534:PHE:HB3	2.21	0.69
1:3:612:VAL:O	1:3:729:THR:OG1	2.10	0.69
1:5:612:VAL:O	1:5:729:THR:OG1	2.10	0.69
1:H:612:VAL:O	1:H:729:THR:OG1	2.10	0.69
1:K:612:VAL:O	1:K:729:THR:OG1	2.10	0.69
1:O:612:VAL:O	1:O:729:THR:OG1	2.10	0.69
1:P:612:VAL:O	1:P:729:THR:OG1	2.10	0.69
1:2:612:VAL:O	1:2:729:THR:OG1	2.10	0.69
1:x:612:VAL:O	1:x:729:THR:OG1	2.10	0.69
1:7:490:SER:CA	1:7:534:PHE:HB3	2.21	0.69
1:8:612:VAL:O	1:8:729:THR:OG1	2.10	0.69
1:B:612:VAL:O	1:B:729:THR:OG1	2.10	0.69
1:b:612:VAL:O	1:b:729:THR:OG1	2.10	0.69
1:g:490:SER:CA	1:g:534:PHE:HB3	2.21	0.69
1:k:612:VAL:O	1:k:729:THR:OG1	2.10	0.69
1:p:612:VAL:O	1:p:729:THR:OG1	2.10	0.69
1:v:612:VAL:O	1:v:729:THR:OG1	2.10	0.69
1:w:490:SER:CA	1:w:534:PHE:HB3	2.21	0.69
1:7:612:VAL:O	1:7:729:THR:OG1	2.10	0.69
1:i:490:SER:CA	1:i:534:PHE:HB3	2.21	0.69
1:8:490:SER:CA	1:8:534:PHE:HB3	2.21	0.69
1:A:612:VAL:O	1:A:729:THR:OG1	2.10	0.69
1:G:521:GLY:HA2	1:G:634:LEU:HD13	1.76	0.69
1:H:490:SER:CA	1:H:534:PHE:HB3	2.21	0.69
1:N:521:GLY:HA2	1:N:634:LEU:HD13	1.75	0.69
1:R:490:SER:CA	1:R:534:PHE:HB3	2.21	0.69
1:R:521:GLY:HA2	1:R:634:LEU:HD13	1.75	0.69
1:Y:612:VAL:O	1:Y:729:THR:OG1	2.10	0.69
1:r:521:GLY:HA2	1:r:634:LEU:HD13	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:521:GLY:HA2	1:3:634:LEU:HD13	1.75	0.68
1:c:441:ASP:OD2	1:d:550:ARG:NH1	2.26	0.68
1:f:521:GLY:HA2	1:f:634:LEU:HD13	1.76	0.68
1:h:436:MET:HE1	1:h:471:MET:CG	2.19	0.68
1:u:521:GLY:HA2	1:u:634:LEU:HD13	1.75	0.68
1:x:521:GLY:HA2	1:x:634:LEU:HD13	1.75	0.68
1:C:521:GLY:HA2	1:C:634:LEU:HD13	1.76	0.68
1:U:490:SER:CA	1:U:534:PHE:HB3	2.21	0.68
1:5:521:GLY:HA2	1:5:634:LEU:HD13	1.75	0.68
1:6:521:GLY:HA2	1:6:634:LEU:HD13	1.76	0.68
1:f:490:SER:CA	1:f:534:PHE:HB3	2.21	0.68
1:j:521:GLY:HA2	1:j:634:LEU:HD13	1.75	0.68
1:k:490:SER:CA	1:k:534:PHE:HB3	2.21	0.68
1:m:612:VAL:O	1:m:729:THR:OG1	2.10	0.68
1:q:612:VAL:O	1:q:729:THR:OG1	2.10	0.68
1:K:521:GLY:HA2	1:K:634:LEU:HD13	1.75	0.68
1:W:521:GLY:HA2	1:W:634:LEU:HD13	1.75	0.68
1:Z:521:GLY:HA2	1:Z:634:LEU:HD13	1.75	0.68
1:l:521:GLY:HA2	1:l:634:LEU:HD13	1.75	0.68
1:y:521:GLY:HA2	1:y:634:LEU:HD13	1.75	0.68
1:K:490:SER:CA	1:K:534:PHE:HB3	2.21	0.68
1:P:521:GLY:HA2	1:P:634:LEU:HD13	1.75	0.68
1:2:521:GLY:HA2	1:2:634:LEU:HD13	1.75	0.68
1:4:490:SER:CA	1:4:534:PHE:HB3	2.21	0.68
1:4:521:GLY:HA2	1:4:634:LEU:HD13	1.75	0.68
1:n:490:SER:CA	1:n:534:PHE:HB3	2.21	0.68
1:n:521:GLY:HA2	1:n:634:LEU:HD13	1.75	0.68
1:J:521:GLY:HA2	1:J:634:LEU:HD13	1.75	0.68
1:M:490:SER:CA	1:M:534:PHE:HB3	2.21	0.68
1:O:521:GLY:HA2	1:O:634:LEU:HD13	1.76	0.68
1:U:521:GLY:HA2	1:U:634:LEU:HD13	1.75	0.68
1:V:436:MET:HE1	1:V:471:MET:CG	2.19	0.68
1:Y:490:SER:CA	1:Y:534:PHE:HB3	2.21	0.68
1:Z:490:SER:CA	1:Z:534:PHE:HB3	2.21	0.68
1:b:521:GLY:HA2	1:b:634:LEU:HD13	1.76	0.68
1:v:521:GLY:HA2	1:v:634:LEU:HD13	1.75	0.68
1:J:490:SER:CA	1:J:534:PHE:HB3	2.21	0.68
1:V:521:GLY:HA2	1:V:634:LEU:HD13	1.75	0.68
1:1:521:GLY:HA2	1:1:634:LEU:HD13	1.75	0.68
1:4:559:MET:CG	1:4:726:PRO:CD	2.64	0.68
1:k:521:GLY:HA2	1:k:634:LEU:HD13	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:490:SER:CA	1:m:534:PHE:HB3	2.21	0.68
1:H:228:TRP:H	1:I:404:MET:HG2	1.59	0.68
1:H:521:GLY:HA2	1:H:634:LEU:HD13	1.75	0.68
1:K:243:SER:HB3	1:K:245:ARG:NH1	2.09	0.68
1:M:521:GLY:HA2	1:M:634:LEU:HD13	1.75	0.68
1:h:521:GLY:HA2	1:h:634:LEU:HD13	1.75	0.68
1:i:521:GLY:HA2	1:i:634:LEU:HD13	1.76	0.68
1:k:228:TRP:H	1:s:404:MET:HG2	1.59	0.68
1:t:490:SER:CA	1:t:534:PHE:HB3	2.21	0.68
1:t:521:GLY:HA2	1:t:634:LEU:HD13	1.75	0.68
1:w:521:GLY:HA2	1:w:634:LEU:HD13	1.76	0.68
1:y:243:SER:HB3	1:y:245:ARG:NH1	2.09	0.68
1:z:521:GLY:HA2	1:z:634:LEU:HD13	1.75	0.68
1:Q:521:GLY:HA2	1:Q:634:LEU:HD13	1.76	0.68
1:7:521:GLY:HA2	1:7:634:LEU:HD13	1.75	0.68
1:A:521:GLY:HA2	1:A:634:LEU:HD13	1.76	0.68
1:C:520:PRO:HG3	1:C:541:LEU:HD23	1.76	0.68
1:L:404:MET:HE1	1:L:652:THR:HG21	1.76	0.68
1:V:404:MET:HG2	1:W:228:TRP:H	1.59	0.68
1:Z:404:MET:HE1	1:Z:652:THR:HG21	1.76	0.68
1:c:521:GLY:HA2	1:c:634:LEU:HD13	1.76	0.68
1:h:404:MET:HG2	1:l:228:TRP:H	1.59	0.68
1:i:520:PRO:HG3	1:i:541:LEU:HD23	1.76	0.68
1:j:404:MET:HE1	1:j:652:THR:HG21	1.76	0.68
1:q:521:GLY:HA2	1:q:634:LEU:HD13	1.75	0.68
1:r:520:PRO:HG3	1:r:541:LEU:HD23	1.76	0.68
1:v:294:SER:OG	1:w:399:TYR:OH	2.12	0.68
1:v:520:PRO:HG3	1:v:541:LEU:HD23	1.76	0.68
1:8:521:GLY:HA2	1:8:634:LEU:HD13	1.75	0.68
1:B:490:SER:CA	1:B:534:PHE:HB3	2.21	0.68
1:D:521:GLY:HA2	1:D:634:LEU:HD13	1.75	0.68
1:G:520:PRO:HG3	1:G:541:LEU:HD23	1.76	0.68
1:P:445:TYR:HB3	1:P:463:PHE:HB3	1.76	0.68
1:W:404:MET:HE1	1:W:652:THR:HG21	1.76	0.68
1:2:520:PRO:HG3	1:2:541:LEU:HD23	1.76	0.68
1:3:445:TYR:HB3	1:3:463:PHE:HB3	1.76	0.68
1:a:521:GLY:HA2	1:a:634:LEU:HD13	1.75	0.68
1:b:445:TYR:HB3	1:b:463:PHE:HB3	1.76	0.68
1:l:404:MET:HE1	1:l:652:THR:HG21	1.76	0.68
1:o:404:MET:HE1	1:o:652:THR:HG21	1.76	0.68
1:u:445:TYR:HB3	1:u:463:PHE:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:520:PRO:HG3	1:u:541:LEU:HD23	1.76	0.68
1:v:404:MET:HE1	1:v:652:THR:HG21	1.76	0.68
1:w:520:PRO:HG3	1:w:541:LEU:HD23	1.76	0.68
1:x:520:PRO:HG3	1:x:541:LEU:HD23	1.76	0.68
1:C:445:TYR:HB3	1:C:463:PHE:HB3	1.76	0.67
1:N:294:SER:OG	1:g:399:TYR:OH	2.12	0.67
1:O:445:TYR:HB3	1:O:463:PHE:HB3	1.76	0.67
1:U:559:MET:CG	1:U:726:PRO:CD	2.64	0.67
1:Y:445:TYR:HB3	1:Y:463:PHE:HB3	1.76	0.67
1:3:520:PRO:HG3	1:3:541:LEU:HD23	1.76	0.67
1:d:705:TYR:HE1	1:r:391:ARG:NH1	1.92	0.67
1:e:521:GLY:HA2	1:e:634:LEU:HD13	1.75	0.67
1:m:445:TYR:HB3	1:m:463:PHE:HB3	1.76	0.67
1:p:404:MET:HG2	1:u:228:TRP:H	1.59	0.67
1:x:445:TYR:HB3	1:x:463:PHE:HB3	1.76	0.67
1:E:521:GLY:HA2	1:E:634:LEU:HD13	1.75	0.67
1:N:404:MET:HE1	1:N:652:THR:HG21	1.76	0.67
1:O:252:TYR:OH	1:O:374:ILE:O	2.13	0.67
1:Q:404:MET:HE1	1:Q:652:THR:HG21	1.76	0.67
1:T:252:TYR:OH	1:T:374:ILE:O	2.13	0.67
1:X:399:TYR:OH	1:6:294:SER:OG	2.13	0.67
1:1:252:TYR:OH	1:1:374:ILE:O	2.13	0.67
1:2:404:MET:HE1	1:2:652:THR:HG21	1.76	0.67
1:5:445:TYR:HB3	1:5:463:PHE:HB3	1.77	0.67
1:c:404:MET:HE1	1:c:652:THR:HG21	1.76	0.67
1:e:445:TYR:HB3	1:e:463:PHE:HB3	1.76	0.67
1:n:404:MET:HE1	1:n:652:THR:HG21	1.76	0.67
1:p:490:SER:CA	1:p:534:PHE:HB3	2.21	0.67
1:q:520:PRO:HG3	1:q:541:LEU:HD23	1.76	0.67
1:x:243:SER:HB3	1:x:245:ARG:NH1	2.09	0.67
1:z:252:TYR:OH	1:z:374:ILE:O	2.13	0.67
1:A:520:PRO:HG3	1:A:541:LEU:HD23	1.76	0.67
1:E:445:TYR:HB3	1:E:463:PHE:HB3	1.76	0.67
1:F:404:MET:HG2	1:R:228:TRP:H	1.59	0.67
1:F:445:TYR:HB3	1:F:463:PHE:HB3	1.76	0.67
1:G:490:SER:CA	1:G:534:PHE:HB3	2.21	0.67
1:J:404:MET:HE1	1:J:652:THR:HG21	1.76	0.67
1:L:252:TYR:OH	1:L:374:ILE:O	2.13	0.67
1:N:252:TYR:OH	1:N:374:ILE:O	2.13	0.67
1:Q:445:TYR:HB3	1:Q:463:PHE:HB3	1.76	0.67
1:S:520:PRO:HG3	1:S:541:LEU:HD23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:294:SER:OG	1:i:399:TYR:OH	2.12	0.67
1:5:252:TYR:OH	1:5:374:ILE:O	2.13	0.67
1:o:252:TYR:OH	1:o:374:ILE:O	2.13	0.67
1:t:243:SER:HB3	1:t:245:ARG:NH1	2.09	0.67
1:M:243:SER:HB3	1:M:245:ARG:NH1	2.09	0.67
1:N:243:SER:HB3	1:N:245:ARG:NH1	2.09	0.67
1:S:252:TYR:OH	1:S:374:ILE:O	2.13	0.67
1:T:520:PRO:HG3	1:T:541:LEU:HD23	1.76	0.67
1:V:399:TYR:OH	1:W:294:SER:OG	2.13	0.67
1:2:252:TYR:OH	1:2:374:ILE:O	2.13	0.67
1:3:243:SER:HB3	1:3:245:ARG:NH1	2.09	0.67
1:6:404:MET:HE1	1:6:652:THR:HG21	1.76	0.67
1:c:445:TYR:HB3	1:c:463:PHE:HB3	1.77	0.67
1:e:404:MET:HE1	1:e:652:THR:HG21	1.76	0.67
1:e:520:PRO:HG3	1:e:541:LEU:HD23	1.76	0.67
1:f:243:SER:HB3	1:f:245:ARG:NH1	2.09	0.67
1:h:399:TYR:OH	1:l:294:SER:OG	2.13	0.67
1:q:252:TYR:OH	1:q:374:ILE:O	2.13	0.67
1:t:520:PRO:HG3	1:t:541:LEU:HD23	1.76	0.67
1:v:252:TYR:OH	1:v:374:ILE:O	2.13	0.67
1:y:445:TYR:HB3	1:y:463:PHE:HB3	1.76	0.67
1:A:252:TYR:OH	1:A:374:ILE:O	2.13	0.67
1:E:404:MET:HE1	1:E:652:THR:HG21	1.76	0.67
1:E:520:PRO:HG3	1:E:541:LEU:HD23	1.76	0.67
1:F:550:ARG:NH1	1:Q:441:ASP:OD2	2.28	0.67
1:G:228:TRP:H	1:W:404:MET:HG2	1.59	0.67
1:K:445:TYR:HB3	1:K:463:PHE:HB3	1.77	0.67
1:M:520:PRO:HG3	1:M:541:LEU:HD23	1.76	0.67
1:P:252:TYR:OH	1:P:374:ILE:O	2.13	0.67
1:R:243:SER:HB3	1:R:245:ARG:NH1	2.09	0.67
1:3:404:MET:HE1	1:3:652:THR:HG21	1.76	0.67
1:3:404:MET:HG2	1:m:228:TRP:H	1.59	0.67
1:6:243:SER:HB3	1:6:245:ARG:NH1	2.09	0.67
1:6:252:TYR:OH	1:6:374:ILE:O	2.13	0.67
1:6:404:MET:HG2	1:t:228:TRP:H	1.59	0.67
1:a:520:PRO:HG3	1:a:541:LEU:HD23	1.76	0.67
1:b:252:TYR:OH	1:b:374:ILE:O	2.13	0.67
1:e:490:SER:CA	1:e:534:PHE:HB3	2.21	0.67
1:r:490:SER:CA	1:r:534:PHE:HB3	2.21	0.67
1:z:404:MET:HE1	1:z:652:THR:HG21	1.76	0.67
1:7:404:MET:HE1	1:7:652:THR:HG21	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:445:TYR:HB3	1:A:463:PHE:HB3	1.76	0.67
1:B:404:MET:HG2	1:C:228:TRP:H	1.59	0.67
1:B:445:TYR:HB3	1:B:463:PHE:HB3	1.76	0.67
1:D:520:PRO:HG3	1:D:541:LEU:HD23	1.76	0.67
1:K:520:PRO:HG3	1:K:541:LEU:HD23	1.76	0.67
1:P:490:SER:CA	1:P:534:PHE:HB3	2.21	0.67
1:R:404:MET:HG2	1:V:228:TRP:H	1.60	0.67
1:R:445:TYR:HB3	1:R:463:PHE:HB3	1.76	0.67
1:X:294:SER:OG	1:Y:399:TYR:OH	2.13	0.67
1:X:404:MET:HE1	1:X:652:THR:HG21	1.76	0.67
1:Y:228:TRP:H	1:x:404:MET:HG2	1.59	0.67
1:1:404:MET:HE1	1:1:652:THR:HG21	1.76	0.67
1:1:490:SER:CA	1:1:534:PHE:HB3	2.21	0.67
1:2:445:TYR:HB3	1:2:463:PHE:HB3	1.76	0.67
1:d:445:TYR:HB3	1:d:463:PHE:HB3	1.77	0.67
1:f:445:TYR:HB3	1:f:463:PHE:HB3	1.76	0.67
1:g:294:SER:OG	1:m:399:TYR:OH	2.13	0.67
1:g:404:MET:HE1	1:g:652:THR:HG21	1.76	0.67
1:j:404:MET:HG2	1:z:228:TRP:H	1.59	0.67
1:l:404:MET:HG2	1:r:228:TRP:H	1.59	0.67
1:m:521:GLY:HA2	1:m:634:LEU:HD13	1.76	0.67
1:n:399:TYR:OH	1:s:294:SER:OG	2.13	0.67
1:p:228:TRP:H	1:q:404:MET:HG2	1.60	0.67
1:p:445:TYR:HB3	1:p:463:PHE:HB3	1.76	0.67
1:q:445:TYR:HB3	1:q:463:PHE:HB3	1.76	0.67
1:v:445:TYR:HB3	1:v:463:PHE:HB3	1.76	0.67
1:w:252:TYR:OH	1:w:374:ILE:O	2.13	0.67
1:x:404:MET:HE1	1:x:652:THR:HG21	1.76	0.67
1:y:520:PRO:HG3	1:y:541:LEU:HD23	1.76	0.67
1:z:490:SER:CA	1:z:534:PHE:HB3	2.21	0.67
1:8:404:MET:HE1	1:8:652:THR:HG21	1.76	0.67
1:F:228:TRP:H	1:G:404:MET:HG2	1.60	0.67
1:F:522:PRO:HB2	1:F:524:MET:HE2	1.77	0.67
1:G:294:SER:OG	1:W:399:TYR:OH	2.13	0.67
1:I:294:SER:OG	1:J:399:TYR:OH	2.13	0.67
1:I:404:MET:HE1	1:I:652:THR:HG21	1.76	0.67
1:I:521:GLY:HA2	1:I:634:LEU:HD13	1.75	0.67
1:J:252:TYR:OH	1:J:374:ILE:O	2.13	0.67
1:L:445:TYR:HB3	1:L:463:PHE:HB3	1.76	0.67
1:L:521:GLY:HA2	1:L:634:LEU:HD13	1.76	0.67
1:M:404:MET:HE1	1:M:652:THR:HG21	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:445:TYR:HB3	1:N:463:PHE:HB3	1.76	0.67
1:Y:521:GLY:HA2	1:Y:634:LEU:HD13	1.76	0.67
1:Z:404:MET:HG2	1:1:228:TRP:H	1.59	0.67
1:6:445:TYR:HB3	1:6:463:PHE:HB3	1.77	0.67
1:a:404:MET:HE1	1:a:652:THR:HG21	1.76	0.67
1:d:522:PRO:HB2	1:d:524:MET:HE2	1.77	0.67
1:i:252:TYR:OH	1:i:374:ILE:O	2.13	0.67
1:o:445:TYR:HB3	1:o:463:PHE:HB3	1.76	0.67
1:s:404:MET:HE1	1:s:652:THR:HG21	1.76	0.67
1:s:521:GLY:HA2	1:s:634:LEU:HD13	1.75	0.67
1:z:520:PRO:HG3	1:z:541:LEU:HD23	1.76	0.67
1:A:243:SER:HB3	1:A:245:ARG:NH1	2.09	0.67
1:A:522:PRO:HB2	1:A:524:MET:HE2	1.77	0.67
1:D:404:MET:HE1	1:D:652:THR:HG21	1.76	0.67
1:I:228:TRP:H	1:J:404:MET:HG2	1.59	0.67
1:J:441:ASP:OD2	1:L:550:ARG:NH1	2.28	0.67
1:M:228:TRP:H	1:N:404:MET:HG2	1.59	0.67
1:O:399:TYR:OH	1:4:294:SER:OG	2.12	0.67
1:Q:522:PRO:HB2	1:Q:524:MET:HE2	1.77	0.67
1:T:404:MET:HG2	1:c:228:TRP:H	1.60	0.67
1:T:521:GLY:HA2	1:T:634:LEU:HD13	1.75	0.67
1:U:445:TYR:HB3	1:U:463:PHE:HB3	1.77	0.67
1:4:445:TYR:HB3	1:4:463:PHE:HB3	1.76	0.67
1:l:399:TYR:OH	1:r:294:SER:OG	2.13	0.67
1:n:252:TYR:OH	1:n:374:ILE:O	2.13	0.67
1:n:404:MET:HG2	1:s:228:TRP:H	1.59	0.67
1:n:441:ASP:OD2	1:o:550:ARG:NH1	2.28	0.67
1:o:228:TRP:H	1:v:404:MET:HG2	1.60	0.67
1:o:521:GLY:HA2	1:o:634:LEU:HD13	1.76	0.67
1:t:404:MET:HE1	1:t:652:THR:HG21	1.76	0.67
1:z:445:TYR:HB3	1:z:463:PHE:HB3	1.76	0.67
1:H:522:PRO:HB2	1:H:524:MET:HE2	1.77	0.67
1:L:522:PRO:HB2	1:L:524:MET:HE2	1.77	0.67
1:M:445:TYR:HB3	1:M:463:PHE:HB3	1.76	0.67
1:N:228:TRP:H	1:g:404:MET:HG2	1.59	0.67
1:S:294:SER:OG	1:4:399:TYR:OH	2.13	0.67
1:S:521:GLY:HA2	1:S:634:LEU:HD13	1.75	0.67
1:T:294:SER:OG	1:U:399:TYR:OH	2.13	0.67
1:T:404:MET:HE1	1:T:652:THR:HG21	1.76	0.67
1:U:294:SER:OG	1:5:399:TYR:OH	2.12	0.67
1:Y:522:PRO:HB2	1:Y:524:MET:HE2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:520:PRO:HG3	1:1:541:LEU:HD23	1.76	0.67
1:b:490:SER:CA	1:b:534:PHE:HB3	2.21	0.67
1:e:522:PRO:HB2	1:e:524:MET:HE2	1.77	0.67
1:f:404:MET:HG2	1:h:228:TRP:H	1.60	0.67
1:g:520:PRO:HG3	1:g:541:LEU:HD23	1.76	0.67
1:g:522:PRO:HB2	1:g:524:MET:HE2	1.77	0.67
1:k:522:PRO:HB2	1:k:524:MET:HE2	1.77	0.67
1:p:252:TYR:OH	1:p:374:ILE:O	2.13	0.67
1:p:399:TYR:OH	1:u:294:SER:OG	2.12	0.67
1:q:522:PRO:HB2	1:q:524:MET:HE2	1.77	0.67
1:t:445:TYR:HB3	1:t:463:PHE:HB3	1.76	0.67
1:u:490:SER:CA	1:u:534:PHE:HB3	2.21	0.67
1:7:522:PRO:HB2	1:7:524:MET:HE2	1.77	0.67
1:A:404:MET:HE1	1:A:652:THR:HG21	1.76	0.67
1:A:404:MET:HG2	1:B:228:TRP:H	1.60	0.67
1:B:252:TYR:OH	1:B:374:ILE:O	2.13	0.67
1:B:399:TYR:OH	1:C:294:SER:OG	2.12	0.67
1:C:490:SER:CA	1:C:534:PHE:HB3	2.21	0.67
1:I:445:TYR:HB3	1:I:463:PHE:HB3	1.76	0.67
1:I:522:PRO:HB2	1:I:524:MET:HE2	1.77	0.67
1:J:445:TYR:HB3	1:J:463:PHE:HB3	1.77	0.67
1:M:522:PRO:HB2	1:M:524:MET:HE2	1.77	0.67
1:Q:228:TRP:H	1:S:404:MET:HG2	1.60	0.67
1:R:442:GLN:HE21	1:S:358:SER:HB3	1.60	0.67
1:S:404:MET:HE1	1:S:652:THR:HG21	1.76	0.67
1:S:522:PRO:HB2	1:S:524:MET:HE2	1.77	0.67
1:T:522:PRO:HB2	1:T:524:MET:HE2	1.77	0.67
1:X:404:MET:HG2	1:6:228:TRP:H	1.59	0.67
1:1:445:TYR:HB3	1:1:463:PHE:HB3	1.76	0.67
1:c:522:PRO:HB2	1:c:524:MET:HE2	1.77	0.67
1:d:391:ARG:NH1	1:f:705:TYR:HE1	1.93	0.67
1:f:520:PRO:HG3	1:f:541:LEU:HD23	1.76	0.67
1:g:445:TYR:HB3	1:g:463:PHE:HB3	1.76	0.67
1:m:522:PRO:HB2	1:m:524:MET:HE2	1.77	0.67
1:n:445:TYR:HB3	1:n:463:PHE:HB3	1.77	0.67
1:o:522:PRO:HB2	1:o:524:MET:HE2	1.77	0.67
1:q:243:SER:HB3	1:q:245:ARG:NH1	2.09	0.67
1:8:522:PRO:HB2	1:8:524:MET:HE2	1.77	0.67
1:C:252:TYR:OH	1:C:374:ILE:O	2.13	0.66
1:E:522:PRO:HB2	1:E:524:MET:HE2	1.77	0.66
1:L:228:TRP:H	1:2:404:MET:HG2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:243:SER:HB3	1:L:245:ARG:NH1	2.09	0.66
1:T:358:SER:HB3	1:f:442:GLN:HE21	1.60	0.66
1:T:445:TYR:HB3	1:T:463:PHE:HB3	1.76	0.66
1:V:345:PHE:CE1	1:V:400:PHE:HD2	2.14	0.66
1:V:445:TYR:HB3	1:V:463:PHE:HB3	1.76	0.66
1:W:445:TYR:HB3	1:W:463:PHE:HB3	1.76	0.66
1:X:445:TYR:HB3	1:X:463:PHE:HB3	1.77	0.66
1:X:520:PRO:HG3	1:X:541:LEU:HD23	1.76	0.66
1:X:522:PRO:HB2	1:X:524:MET:HE2	1.77	0.66
1:c:490:SER:CA	1:c:534:PHE:HB3	2.21	0.66
1:h:345:PHE:CE1	1:h:400:PHE:HD2	2.14	0.66
1:h:559:MET:CG	1:h:726:PRO:CD	2.64	0.66
1:j:520:PRO:HG3	1:j:541:LEU:HD23	1.76	0.66
1:l:445:TYR:HB3	1:l:463:PHE:HB3	1.76	0.66
1:s:445:TYR:HB3	1:s:463:PHE:HB3	1.76	0.66
1:s:522:PRO:HB2	1:s:524:MET:HE2	1.77	0.66
1:t:522:PRO:HB2	1:t:524:MET:HE2	1.77	0.66
1:u:441:ASP:OD2	1:v:550:ARG:NH1	2.28	0.66
1:7:520:PRO:HG3	1:7:541:LEU:HD23	1.76	0.66
1:J:712:GLU:HB3	1:J:724:PRO:HG3	1.78	0.66
1:M:345:PHE:CE1	1:M:400:PHE:HD2	2.14	0.66
1:R:520:PRO:HG3	1:R:541:LEU:HD23	1.76	0.66
1:S:445:TYR:HB3	1:S:463:PHE:HB3	1.76	0.66
1:X:252:TYR:OH	1:X:374:ILE:O	2.13	0.66
1:X:521:GLY:HA2	1:X:634:LEU:HD13	1.76	0.66
1:Y:345:PHE:CE1	1:Y:400:PHE:HD2	2.13	0.66
1:Z:345:PHE:CE1	1:Z:400:PHE:HD2	2.14	0.66
1:Z:445:TYR:HB3	1:Z:463:PHE:HB3	1.76	0.66
1:Z:559:MET:CG	1:Z:726:PRO:CD	2.64	0.66
1:5:228:TRP:H	1:b:404:MET:HG2	1.60	0.66
1:6:522:PRO:HB2	1:6:524:MET:HE2	1.77	0.66
1:b:712:GLU:HB3	1:b:724:PRO:HG3	1.78	0.66
1:d:521:GLY:HA2	1:d:634:LEU:HD13	1.75	0.66
1:g:252:TYR:OH	1:g:374:ILE:O	2.13	0.66
1:h:445:TYR:HB3	1:h:463:PHE:HB3	1.76	0.66
1:j:345:PHE:CE1	1:j:400:PHE:HD2	2.14	0.66
1:j:445:TYR:HB3	1:j:463:PHE:HB3	1.77	0.66
1:m:345:PHE:CE1	1:m:400:PHE:HD2	2.13	0.66
1:n:228:TRP:H	1:z:404:MET:HG2	1.60	0.66
1:n:520:PRO:HG3	1:n:541:LEU:HD23	1.76	0.66
1:p:345:PHE:CE1	1:p:400:PHE:HD2	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:404:MET:HE1	1:q:652:THR:HG21	1.76	0.66
1:s:252:TYR:OH	1:s:374:ILE:O	2.13	0.66
1:u:345:PHE:CE1	1:u:400:PHE:HD2	2.14	0.66
1:u:712:GLU:HB3	1:u:724:PRO:HG3	1.78	0.66
1:8:559:MET:CG	1:8:726:PRO:CD	2.64	0.66
1:C:345:PHE:CE1	1:C:400:PHE:HD2	2.13	0.66
1:C:441:ASP:OD2	1:2:550:ARG:NH1	2.28	0.66
1:C:712:GLU:HB3	1:C:724:PRO:HG3	1.78	0.66
1:D:358:SER:HB3	1:P:442:GLN:HE21	1.60	0.66
1:F:521:GLY:HA2	1:F:634:LEU:HD13	1.75	0.66
1:H:399:TYR:OH	1:Z:294:SER:OG	2.13	0.66
1:I:252:TYR:OH	1:I:374:ILE:O	2.13	0.66
1:J:228:TRP:H	1:1:404:MET:HG2	1.60	0.66
1:N:345:PHE:CE1	1:N:400:PHE:HD2	2.13	0.66
1:O:228:TRP:H	1:P:404:MET:HG2	1.60	0.66
1:P:345:PHE:CE1	1:P:400:PHE:HD2	2.14	0.66
1:P:712:GLU:HB3	1:P:724:PRO:HG3	1.78	0.66
1:Q:345:PHE:CE1	1:Q:400:PHE:HD2	2.14	0.66
1:Q:490:SER:CA	1:Q:534:PHE:HB3	2.21	0.66
1:S:559:MET:CG	1:S:726:PRO:CD	2.64	0.66
1:U:228:TRP:H	1:5:404:MET:HG2	1.59	0.66
1:X:345:PHE:CE1	1:X:400:PHE:HD2	2.14	0.66
1:Z:399:TYR:OH	1:1:294:SER:OG	2.13	0.66
1:Z:520:PRO:HG3	1:Z:541:LEU:HD23	1.76	0.66
1:1:442:GLN:HE21	1:8:358:SER:HB3	1.60	0.66
1:3:345:PHE:CE1	1:3:400:PHE:HD2	2.14	0.66
1:a:358:SER:HB3	1:b:442:GLN:HE21	1.60	0.66
1:b:345:PHE:CE1	1:b:400:PHE:HD2	2.14	0.66
1:c:345:PHE:CE1	1:c:400:PHE:HD2	2.14	0.66
1:d:345:PHE:CE1	1:d:400:PHE:HD2	2.13	0.66
1:f:404:MET:HE1	1:f:652:THR:HG21	1.76	0.66
1:g:521:GLY:HA2	1:g:634:LEU:HD13	1.75	0.66
1:i:522:PRO:HB2	1:i:524:MET:HE2	1.77	0.66
1:j:294:SER:OG	1:k:399:TYR:OH	2.13	0.66
1:n:712:GLU:HB3	1:n:724:PRO:HG3	1.78	0.66
1:r:252:TYR:OH	1:r:374:ILE:O	2.13	0.66
1:r:445:TYR:HB3	1:r:463:PHE:HB3	1.76	0.66
1:u:252:TYR:OH	1:u:374:ILE:O	2.13	0.66
1:x:345:PHE:CE1	1:x:400:PHE:HD2	2.14	0.66
1:y:404:MET:HG2	1:8:228:TRP:H	1.59	0.66
1:z:559:MET:CG	1:z:726:PRO:CD	2.64	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:520:PRO:HG3	1:8:541:LEU:HD23	1.76	0.66
1:B:345:PHE:CE1	1:B:400:PHE:HD2	2.14	0.66
1:F:345:PHE:CE1	1:F:400:PHE:HD2	2.14	0.66
1:G:252:TYR:OH	1:G:374:ILE:O	2.13	0.66
1:I:290:HIS:HD2	1:I:366:PRO:HB3	1.61	0.66
1:J:442:GLN:HE21	1:L:358:SER:HB3	1.61	0.66
1:N:520:PRO:HG3	1:N:541:LEU:HD23	1.76	0.66
1:O:345:PHE:CE1	1:O:400:PHE:HD2	2.14	0.66
1:U:404:MET:HE1	1:U:652:THR:HG21	1.76	0.66
1:V:290:HIS:HD2	1:V:366:PRO:HB3	1.61	0.66
1:Y:404:MET:HE1	1:Y:652:THR:HG21	1.76	0.66
1:3:252:TYR:OH	1:3:374:ILE:O	2.13	0.66
1:6:345:PHE:CE1	1:6:400:PHE:HD2	2.14	0.66
1:6:520:PRO:HG3	1:6:541:LEU:HD23	1.76	0.66
1:a:252:TYR:OH	1:a:374:ILE:O	2.13	0.66
1:c:252:TYR:OH	1:c:374:ILE:O	2.13	0.66
1:h:290:HIS:HD2	1:h:366:PRO:HB3	1.61	0.66
1:j:399:TYR:OH	1:z:294:SER:OG	2.13	0.66
1:m:404:MET:HE1	1:m:652:THR:HG21	1.76	0.66
1:n:442:GLN:HE21	1:o:358:SER:HB3	1.61	0.66
1:o:243:SER:HB3	1:o:245:ARG:NH1	2.09	0.66
1:o:520:PRO:HG3	1:o:541:LEU:HD23	1.76	0.66
1:r:345:PHE:CE1	1:r:400:PHE:HD2	2.14	0.66
1:u:559:MET:CG	1:u:726:PRO:CD	2.64	0.66
1:v:228:TRP:H	1:w:404:MET:HG2	1.58	0.66
1:y:399:TYR:OH	1:8:294:SER:OG	2.13	0.66
1:B:521:GLY:HA2	1:B:634:LEU:HD13	1.75	0.66
1:C:312:ARG:NH2	1:C:684:GLU:OE1	2.29	0.66
1:D:399:TYR:OH	1:E:294:SER:OG	2.13	0.66
1:D:550:ARG:NH1	1:P:441:ASP:OD2	2.29	0.66
1:E:345:PHE:CE1	1:E:400:PHE:HD2	2.14	0.66
1:F:252:TYR:OH	1:F:374:ILE:O	2.13	0.66
1:G:345:PHE:CE1	1:G:400:PHE:HD2	2.14	0.66
1:J:520:PRO:HG3	1:J:541:LEU:HD23	1.76	0.66
1:K:399:TYR:OH	1:7:294:SER:OG	2.13	0.66
1:M:252:TYR:OH	1:M:374:ILE:O	2.13	0.66
1:N:522:PRO:HB2	1:N:524:MET:HE2	1.77	0.66
1:O:404:MET:HG2	1:4:228:TRP:H	1.59	0.66
1:O:404:MET:HE1	1:O:652:THR:HG21	1.76	0.66
1:O:442:GLN:HE21	1:g:358:SER:HB3	1.61	0.66
1:O:705:TYR:HE1	1:P:391:ARG:NH1	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:228:TRP:H	1:Q:404:MET:HG2	1.59	0.66
1:P:404:MET:HE1	1:P:652:THR:HG21	1.76	0.66
1:P:520:PRO:HG3	1:P:541:LEU:HD23	1.76	0.66
1:Q:252:TYR:OH	1:Q:374:ILE:O	2.13	0.66
1:R:404:MET:HE1	1:R:652:THR:HG21	1.76	0.66
1:R:550:ARG:NH1	1:U:441:ASP:OD2	2.28	0.66
1:T:559:MET:CG	1:T:726:PRO:CD	2.64	0.66
1:W:312:ARG:NH2	1:W:684:GLU:OE1	2.29	0.66
1:W:442:GLN:HE21	1:Y:358:SER:HB3	1.61	0.66
1:X:358:SER:HB3	1:5:442:GLN:HE21	1.61	0.66
1:Y:294:SER:OG	1:x:399:TYR:OH	2.13	0.66
1:4:404:MET:HE1	1:4:652:THR:HG21	1.76	0.66
1:5:290:HIS:HD2	1:5:366:PRO:HB3	1.61	0.66
1:5:345:PHE:CE1	1:5:400:PHE:HD2	2.14	0.66
1:5:404:MET:HE1	1:5:652:THR:HG21	1.76	0.66
1:a:550:ARG:NH1	1:b:441:ASP:OD2	2.29	0.66
1:b:294:SER:OG	1:c:399:TYR:OH	2.12	0.66
1:b:312:ARG:NH2	1:b:684:GLU:OE1	2.29	0.66
1:b:404:MET:HE1	1:b:652:THR:HG21	1.76	0.66
1:b:520:PRO:HG3	1:b:541:LEU:HD23	1.76	0.66
1:d:252:TYR:OH	1:d:374:ILE:O	2.13	0.66
1:g:345:PHE:CE1	1:g:400:PHE:HD2	2.14	0.66
1:h:520:PRO:HG3	1:h:541:LEU:HD23	1.76	0.66
1:i:228:TRP:H	1:7:404:MET:HG2	1.60	0.66
1:j:559:MET:CG	1:j:726:PRO:CD	2.64	0.66
1:l:312:ARG:NH2	1:l:684:GLU:OE1	2.29	0.66
1:m:252:TYR:OH	1:m:374:ILE:O	2.13	0.66
1:p:521:GLY:HA2	1:p:634:LEU:HD13	1.75	0.66
1:s:290:HIS:HD2	1:s:366:PRO:HB3	1.61	0.66
1:t:345:PHE:CE1	1:t:400:PHE:HD2	2.14	0.66
1:x:252:TYR:OH	1:x:374:ILE:O	2.13	0.66
1:z:442:GLN:HE21	1:7:358:SER:HB3	1.60	0.66
1:F:404:MET:HE1	1:F:652:THR:HG21	1.76	0.66
1:H:290:HIS:HD2	1:H:366:PRO:HB3	1.61	0.66
1:J:294:SER:OG	1:1:399:TYR:OH	2.13	0.66
1:K:228:TRP:H	1:L:404:MET:HG2	1.59	0.66
1:K:404:MET:HG2	1:7:228:TRP:H	1.59	0.66
1:K:442:GLN:HE21	1:1:358:SER:HB3	1.61	0.66
1:L:712:GLU:HB3	1:L:724:PRO:HG3	1.78	0.66
1:M:312:ARG:NH2	1:M:684:GLU:OE1	2.29	0.66
1:O:290:HIS:HD2	1:O:366:PRO:HB3	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:312:ARG:NH2	1:P:684:GLU:OE1	2.29	0.66
1:V:520:PRO:HG3	1:V:541:LEU:HD23	1.76	0.66
1:X:290:HIS:HD2	1:X:366:PRO:HB3	1.61	0.66
1:Y:252:TYR:OH	1:Y:374:ILE:O	2.13	0.66
1:Y:290:HIS:HD2	1:Y:366:PRO:HB3	1.61	0.66
1:1:559:MET:CG	1:1:726:PRO:CD	2.64	0.66
1:1:712:GLU:HB3	1:1:724:PRO:HG3	1.78	0.66
1:2:228:TRP:H	1:i:404:MET:HG2	1.59	0.66
1:3:399:TYR:OH	1:m:294:SER:OG	2.13	0.66
1:4:441:ASP:OD2	1:f:550:ARG:NH1	2.28	0.66
1:5:705:TYR:HE1	1:b:391:ARG:NH1	1.94	0.66
1:a:712:GLU:HB3	1:a:724:PRO:HG3	1.78	0.66
1:d:404:MET:HE1	1:d:652:THR:HG21	1.76	0.66
1:e:345:PHE:CE1	1:e:400:PHE:HD2	2.14	0.66
1:i:559:MET:CG	1:i:726:PRO:CD	2.64	0.66
1:i:712:GLU:HB3	1:i:724:PRO:HG3	1.78	0.66
1:k:290:HIS:HD2	1:k:366:PRO:HB3	1.61	0.66
1:l:442:GLN:HE21	1:m:358:SER:HB3	1.61	0.66
1:m:290:HIS:HD2	1:m:366:PRO:HB3	1.61	0.66
1:n:294:SER:OG	1:z:399:TYR:OH	2.13	0.66
1:o:345:PHE:CE1	1:o:400:PHE:HD2	2.14	0.66
1:t:312:ARG:NH2	1:t:684:GLU:OE1	2.29	0.66
1:u:312:ARG:NH2	1:u:684:GLU:OE1	2.29	0.66
1:v:312:ARG:NH2	1:v:684:GLU:OE1	2.29	0.66
1:w:522:PRO:HB2	1:w:524:MET:HE2	1.77	0.66
1:y:442:GLN:HE21	1:z:358:SER:HB3	1.61	0.66
1:z:712:GLU:HB3	1:z:724:PRO:HG3	1.78	0.66
1:7:559:MET:CG	1:7:726:PRO:CD	2.64	0.66
1:8:445:TYR:HB3	1:8:463:PHE:HB3	1.76	0.66
1:A:399:TYR:OH	1:B:294:SER:OG	2.13	0.66
1:C:559:MET:CG	1:C:726:PRO:CD	2.64	0.66
1:D:445:TYR:HB3	1:D:463:PHE:HB3	1.76	0.66
1:G:445:TYR:HB3	1:G:463:PHE:HB3	1.76	0.66
1:I:312:ARG:NH2	1:I:684:GLU:OE1	2.29	0.66
1:L:345:PHE:CE1	1:L:400:PHE:HD2	2.14	0.66
1:L:520:PRO:HG3	1:L:541:LEU:HD23	1.76	0.66
1:P:294:SER:OG	1:Q:399:TYR:OH	2.12	0.66
1:Q:312:ARG:NH2	1:Q:684:GLU:OE1	2.29	0.66
1:2:312:ARG:NH2	1:2:684:GLU:OE1	2.29	0.66
1:b:228:TRP:H	1:c:404:MET:HG2	1.59	0.66
1:c:520:PRO:HG3	1:c:541:LEU:HD23	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:290:HIS:HD2	1:g:366:PRO:HB3	1.61	0.66
1:g:712:GLU:HB3	1:g:724:PRO:HG3	1.78	0.66
1:h:312:ARG:NH2	1:h:684:GLU:OE1	2.29	0.66
1:l:441:ASP:OD2	1:m:550:ARG:NH1	2.28	0.66
1:m:520:PRO:HG3	1:m:541:LEU:HD23	1.76	0.66
1:o:712:GLU:HB3	1:o:724:PRO:HG3	1.78	0.66
1:p:294:SER:OG	1:q:399:TYR:OH	2.13	0.66
1:s:312:ARG:NH2	1:s:684:GLU:OE1	2.29	0.66
1:t:252:TYR:OH	1:t:374:ILE:O	2.13	0.66
1:u:404:MET:HE1	1:u:652:THR:HG21	1.76	0.66
1:w:559:MET:CG	1:w:726:PRO:CD	2.64	0.66
1:w:705:TYR:HE1	1:8:391:ARG:NH1	1.93	0.66
1:7:290:HIS:HD2	1:7:366:PRO:HB3	1.61	0.66
1:7:445:TYR:HB3	1:7:463:PHE:HB3	1.76	0.66
1:8:290:HIS:HD2	1:8:366:PRO:HB3	1.61	0.66
1:8:345:PHE:CE1	1:8:400:PHE:HD2	2.14	0.66
1:B:441:ASP:OD2	1:J:550:ARG:NH1	2.28	0.66
1:D:345:PHE:CE1	1:D:400:PHE:HD2	2.14	0.66
1:E:358:SER:HB3	1:F:442:GLN:HE21	1.61	0.66
1:F:294:SER:OG	1:G:399:TYR:OH	2.13	0.66
1:F:391:ARG:NH1	1:R:705:TYR:HE1	1.94	0.66
1:H:345:PHE:CE1	1:H:400:PHE:HD2	2.14	0.66
1:H:445:TYR:HB3	1:H:463:PHE:HB3	1.76	0.66
1:K:312:ARG:NH2	1:K:684:GLU:OE1	2.29	0.66
1:Q:520:PRO:HG3	1:Q:541:LEU:HD23	1.76	0.66
1:V:312:ARG:NH2	1:V:684:GLU:OE1	2.29	0.66
1:W:441:ASP:OD2	1:Y:550:ARG:NH1	2.28	0.66
1:X:712:GLU:HB3	1:X:724:PRO:HG3	1.78	0.66
1:1:312:ARG:NH2	1:1:684:GLU:OE1	2.29	0.66
1:1:441:ASP:OD2	1:8:550:ARG:NH1	2.29	0.66
1:4:520:PRO:HG3	1:4:541:LEU:HD23	1.76	0.66
1:4:712:GLU:HB3	1:4:724:PRO:HG3	1.78	0.66
1:a:445:TYR:HB3	1:a:463:PHE:HB3	1.76	0.66
1:d:312:ARG:NH2	1:d:684:GLU:OE1	2.29	0.66
1:d:520:PRO:HG3	1:d:541:LEU:HD23	1.76	0.66
1:h:404:MET:HE1	1:h:652:THR:HG21	1.76	0.66
1:l:712:GLU:HB3	1:l:724:PRO:HG3	1.78	0.66
1:n:550:ARG:NH1	1:p:441:ASP:OD2	2.28	0.66
1:o:404:MET:HG2	1:y:228:TRP:H	1.59	0.66
1:w:712:GLU:HB3	1:w:724:PRO:HG3	1.78	0.66
1:7:252:TYR:OH	1:7:374:ILE:O	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:252:TYR:OH	1:8:374:ILE:O	2.13	0.66
1:A:228:TRP:H	1:E:404:MET:HG2	1.60	0.66
1:B:290:HIS:HD2	1:B:366:PRO:HB3	1.61	0.66
1:B:358:SER:HB3	1:L:442:GLN:HE21	1.61	0.66
1:D:462:LYS:NZ	1:N:554:ASP:OD1	2.26	0.66
1:D:712:GLU:HB3	1:D:724:PRO:HG3	1.78	0.66
1:F:312:ARG:NH2	1:F:684:GLU:OE1	2.29	0.66
1:F:520:PRO:HG3	1:F:541:LEU:HD23	1.76	0.66
1:M:404:MET:HG2	1:3:228:TRP:H	1.60	0.66
1:N:705:TYR:HE1	1:g:391:ARG:NH1	1.94	0.66
1:S:290:HIS:HD2	1:S:366:PRO:HB3	1.61	0.66
1:S:312:ARG:NH2	1:S:684:GLU:OE1	2.29	0.66
1:U:520:PRO:HG3	1:U:541:LEU:HD23	1.76	0.66
1:U:712:GLU:HB3	1:U:724:PRO:HG3	1.78	0.66
1:V:404:MET:HE1	1:V:652:THR:HG21	1.76	0.66
1:X:228:TRP:H	1:Y:404:MET:HG2	1.60	0.66
1:X:391:ARG:NH1	1:6:705:TYR:HE1	1.94	0.66
1:Y:312:ARG:NH2	1:Y:684:GLU:OE1	2.29	0.66
1:Y:520:PRO:HG3	1:Y:541:LEU:HD23	1.76	0.66
1:Z:290:HIS:HD2	1:Z:366:PRO:HB3	1.61	0.66
1:1:522:PRO:HB2	1:1:524:MET:HE2	1.77	0.66
1:c:312:ARG:NH2	1:c:684:GLU:OE1	2.29	0.66
1:d:712:GLU:HB3	1:d:724:PRO:HG3	1.78	0.66
1:e:404:MET:HG2	1:q:228:TRP:H	1.60	0.66
1:i:312:ARG:NH2	1:i:684:GLU:OE1	2.29	0.66
1:k:345:PHE:CE1	1:k:400:PHE:HD2	2.14	0.66
1:m:312:ARG:NH2	1:m:684:GLU:OE1	2.29	0.66
1:n:312:ARG:NH2	1:n:684:GLU:OE1	2.29	0.66
1:n:358:SER:HB3	1:p:442:GLN:HE21	1.61	0.66
1:o:294:SER:OG	1:v:399:TYR:OH	2.13	0.66
1:r:312:ARG:NH2	1:r:684:GLU:OE1	2.29	0.66
1:t:623:PRO:HD3	1:v:478:TYR:CE2	2.31	0.66
1:w:312:ARG:NH2	1:w:684:GLU:OE1	2.29	0.66
1:y:312:ARG:NH2	1:y:684:GLU:OE1	2.29	0.66
1:z:312:ARG:NH2	1:z:684:GLU:OE1	2.29	0.66
1:7:345:PHE:CE1	1:7:400:PHE:HD2	2.14	0.66
1:A:441:ASP:OD2	1:G:550:ARG:NH1	2.28	0.66
1:B:442:GLN:HE21	1:J:358:SER:HB3	1.61	0.66
1:B:550:ARG:NH1	1:L:441:ASP:OD2	2.28	0.66
1:C:404:MET:HE1	1:C:652:THR:HG21	1.76	0.66
1:E:290:HIS:HD2	1:E:366:PRO:HB3	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:312:ARG:NH2	1:G:684:GLU:OE1	2.29	0.66
1:H:312:ARG:NH2	1:H:684:GLU:OE1	2.29	0.66
1:H:478:TYR:CE2	1:W:623:PRO:HD3	2.31	0.66
1:J:312:ARG:NH2	1:J:684:GLU:OE1	2.29	0.66
1:K:294:SER:OG	1:L:399:TYR:OH	2.12	0.66
1:K:522:PRO:HB2	1:K:524:MET:HE2	1.77	0.66
1:M:623:PRO:HD3	1:2:478:TYR:CE2	2.31	0.66
1:R:358:SER:HB3	1:U:442:GLN:HE21	1.61	0.66
1:R:478:TYR:CE2	1:S:623:PRO:HD3	2.31	0.66
1:T:312:ARG:NH2	1:T:684:GLU:OE1	2.29	0.66
1:T:399:TYR:OH	1:c:294:SER:OG	2.13	0.66
1:T:442:GLN:HE21	1:4:358:SER:HB3	1.61	0.66
1:T:623:PRO:HD3	1:f:478:TYR:CE2	2.31	0.66
1:U:252:TYR:OH	1:U:374:ILE:O	2.13	0.66
1:U:290:HIS:HD2	1:U:366:PRO:HB3	1.61	0.66
1:U:345:PHE:CE1	1:U:400:PHE:HD2	2.14	0.66
1:V:391:ARG:NH1	1:W:705:TYR:HE1	1.94	0.66
1:W:712:GLU:HB3	1:W:724:PRO:HG3	1.78	0.66
1:4:345:PHE:CE1	1:4:400:PHE:HD2	2.14	0.66
1:a:345:PHE:CE1	1:a:400:PHE:HD2	2.14	0.66
1:a:399:TYR:OH	1:e:294:SER:OG	2.14	0.66
1:c:623:PRO:HD3	1:e:478:TYR:CE2	2.31	0.66
1:f:252:TYR:OH	1:f:374:ILE:O	2.13	0.66
1:g:228:TRP:H	1:m:404:MET:HG2	1.60	0.66
1:i:442:GLN:HE21	1:j:358:SER:HB3	1.61	0.66
1:k:358:SER:HB3	1:m:442:GLN:HE21	1.60	0.66
1:k:445:TYR:HB3	1:k:463:PHE:HB3	1.76	0.66
1:k:520:PRO:HG3	1:k:541:LEU:HD23	1.76	0.66
1:l:345:PHE:CE1	1:l:400:PHE:HD2	2.13	0.66
1:l:520:PRO:HG3	1:l:541:LEU:HD23	1.76	0.66
1:o:290:HIS:HD2	1:o:366:PRO:HB3	1.61	0.66
1:o:441:ASP:OD2	1:p:550:ARG:NH1	2.28	0.66
1:p:290:HIS:HD2	1:p:366:PRO:HB3	1.61	0.66
1:p:520:PRO:HG3	1:p:541:LEU:HD23	1.76	0.66
1:q:623:PRO:HD3	1:s:478:TYR:CE2	2.31	0.66
1:t:712:GLU:HB3	1:t:724:PRO:HG3	1.78	0.66
1:y:712:GLU:HB3	1:y:724:PRO:HG3	1.78	0.66
1:z:522:PRO:HB2	1:z:524:MET:HE2	1.77	0.66
1:7:312:ARG:NH2	1:7:684:GLU:OE1	2.29	0.66
1:A:358:SER:HB3	1:I:442:GLN:HE21	1.61	0.65
1:A:623:PRO:HD3	1:I:478:TYR:CE2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:478:TYR:CE2	1:Q:623:PRO:HD3	2.31	0.65
1:H:520:PRO:HG3	1:H:541:LEU:HD23	1.76	0.65
1:I:345:PHE:CE1	1:I:400:PHE:HD2	2.13	0.65
1:J:705:TYR:HE1	1:1:391:ARG:NH1	1.94	0.65
1:K:623:PRO:HD3	1:8:478:TYR:CE2	2.31	0.65
1:L:294:SER:OG	1:2:399:TYR:OH	2.13	0.65
1:L:705:TYR:HE1	1:2:391:ARG:NH1	1.94	0.65
1:N:478:TYR:CE2	1:P:623:PRO:HD3	2.32	0.65
1:O:391:ARG:NH1	1:4:705:TYR:HE1	1.94	0.65
1:P:705:TYR:HE1	1:Q:391:ARG:NH1	1.94	0.65
1:R:252:TYR:OH	1:R:374:ILE:O	2.13	0.65
1:R:312:ARG:NH2	1:R:684:GLU:OE1	2.29	0.65
1:S:442:GLN:HE21	1:U:358:SER:HB3	1.61	0.65
1:U:522:PRO:HB2	1:U:524:MET:HE2	1.77	0.65
1:W:345:PHE:CE1	1:W:400:PHE:HD2	2.13	0.65
1:W:478:TYR:CE2	1:Y:623:PRO:HD3	2.31	0.65
1:W:520:PRO:HG3	1:W:541:LEU:HD23	1.76	0.65
1:Z:243:SER:HB3	1:Z:245:ARG:NH1	2.09	0.65
1:1:478:TYR:CE2	1:8:623:PRO:HD3	2.31	0.65
1:3:391:ARG:NH1	1:m:705:TYR:HE1	1.94	0.65
1:3:623:PRO:HD3	1:j:478:TYR:CE2	2.31	0.65
1:4:252:TYR:OH	1:4:374:ILE:O	2.13	0.65
1:4:442:GLN:HE21	1:f:358:SER:HB3	1.61	0.65
1:6:358:SER:HB3	1:a:442:GLN:HE21	1.61	0.65
1:6:478:TYR:CE2	1:b:623:PRO:HD3	2.32	0.65
1:a:294:SER:OG	1:u:399:TYR:OH	2.13	0.65
1:e:290:HIS:HD2	1:e:366:PRO:HB3	1.61	0.65
1:j:243:SER:HB3	1:j:245:ARG:NH1	2.09	0.65
1:j:290:HIS:HD2	1:j:366:PRO:HB3	1.61	0.65
1:k:312:ARG:NH2	1:k:684:GLU:OE1	2.29	0.65
1:k:478:TYR:CE2	1:l:623:PRO:HD3	2.31	0.65
1:k:712:GLU:HB3	1:k:724:PRO:HG3	1.78	0.65
1:l:478:TYR:CE2	1:m:623:PRO:HD3	2.31	0.65
1:o:442:GLN:HE21	1:p:358:SER:HB3	1.61	0.65
1:o:705:TYR:HE1	1:v:391:ARG:NH1	1.94	0.65
1:q:358:SER:HB3	1:s:442:GLN:HE21	1.60	0.65
1:q:441:ASP:OD2	1:r:550:ARG:NH1	2.29	0.65
1:s:345:PHE:CE1	1:s:400:PHE:HD2	2.14	0.65
1:t:404:MET:HG2	1:x:228:TRP:H	1.60	0.65
1:u:442:GLN:HE21	1:v:358:SER:HB3	1.61	0.65
1:v:705:TYR:HE1	1:w:391:ARG:NH1	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:345:PHE:CE1	1:y:400:PHE:HD2	2.14	0.65
1:y:623:PRO:HD3	1:7:478:TYR:CE2	2.31	0.65
1:z:478:TYR:CE2	1:7:623:PRO:HD3	2.31	0.65
1:B:391:ARG:NH1	1:C:705:TYR:HE1	1.94	0.65
1:B:404:MET:HE1	1:B:652:THR:HG21	1.76	0.65
1:B:520:PRO:HG3	1:B:541:LEU:HD23	1.76	0.65
1:C:399:TYR:OH	1:D:294:SER:OG	2.13	0.65
1:C:442:GLN:HE21	1:2:358:SER:HB3	1.61	0.65
1:D:442:GLN:HE21	1:N:358:SER:HB3	1.61	0.65
1:G:442:GLN:HE21	1:I:358:SER:HB3	1.61	0.65
1:G:712:GLU:HB3	1:G:724:PRO:HG3	1.78	0.65
1:H:358:SER:HB3	1:Y:442:GLN:HE21	1.60	0.65
1:H:712:GLU:HB3	1:H:724:PRO:HG3	1.78	0.65
1:K:345:PHE:CE1	1:K:400:PHE:HD2	2.14	0.65
1:K:358:SER:HB3	1:8:442:GLN:HE21	1.61	0.65
1:K:712:GLU:HB3	1:K:724:PRO:HG3	1.78	0.65
1:L:290:HIS:HD2	1:L:366:PRO:HB3	1.61	0.65
1:M:712:GLU:HB3	1:M:724:PRO:HG3	1.78	0.65
1:N:442:GLN:HE21	1:P:358:SER:HB3	1.61	0.65
1:S:243:SER:HB3	1:S:245:ARG:NH1	2.09	0.65
1:T:290:HIS:HD2	1:T:366:PRO:HB3	1.61	0.65
1:Y:705:TYR:HE1	1:x:391:ARG:NH1	1.94	0.65
1:Z:478:TYR:CE2	1:x:623:PRO:HD3	2.32	0.65
1:1:345:PHE:CE1	1:1:400:PHE:HD2	2.14	0.65
1:4:290:HIS:HD2	1:4:366:PRO:HB3	1.61	0.65
1:4:522:PRO:HB2	1:4:524:MET:HE2	1.77	0.65
1:h:391:ARG:NH1	1:l:705:TYR:HE1	1.94	0.65
1:o:312:ARG:NH2	1:o:684:GLU:OE1	2.29	0.65
1:o:399:TYR:OH	1:y:294:SER:OG	2.12	0.65
1:p:312:ARG:NH2	1:p:684:GLU:OE1	2.29	0.65
1:p:391:ARG:NH1	1:u:705:TYR:HE1	1.94	0.65
1:p:705:TYR:HE1	1:q:391:ARG:NH1	1.94	0.65
1:r:712:GLU:HB3	1:r:724:PRO:HG3	1.78	0.65
1:t:478:TYR:CE2	1:u:623:PRO:HD3	2.31	0.65
1:y:522:PRO:HB2	1:y:524:MET:HE2	1.77	0.65
1:8:312:ARG:NH2	1:8:684:GLU:OE1	2.29	0.65
1:C:623:PRO:HD3	1:M:478:TYR:CE2	2.31	0.65
1:D:391:ARG:NH1	1:E:705:TYR:HE1	1.94	0.65
1:D:404:MET:HG2	1:E:228:TRP:H	1.60	0.65
1:D:478:TYR:CE2	1:N:623:PRO:HD3	2.31	0.65
1:E:312:ARG:NH2	1:E:684:GLU:OE1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:290:HIS:HD2	1:F:366:PRO:HB3	1.61	0.65
1:F:399:TYR:OH	1:R:294:SER:OG	2.13	0.65
1:F:712:GLU:HB3	1:F:724:PRO:HG3	1.78	0.65
1:M:399:TYR:OH	1:3:294:SER:OG	2.13	0.65
1:P:290:HIS:HD2	1:P:366:PRO:HB3	1.61	0.65
1:Q:294:SER:OG	1:S:399:TYR:OH	2.13	0.65
1:U:705:TYR:HE1	1:5:391:ARG:NH1	1.94	0.65
1:X:312:ARG:NH2	1:X:684:GLU:OE1	2.29	0.65
1:Y:559:MET:CG	1:Y:726:PRO:CD	2.64	0.65
1:2:705:TYR:HE1	1:i:391:ARG:NH1	1.94	0.65
1:2:712:GLU:HB3	1:2:724:PRO:HG3	1.78	0.65
1:4:243:SER:HB3	1:4:245:ARG:NH1	2.09	0.65
1:6:391:ARG:NH1	1:t:705:TYR:HE1	1.94	0.65
1:6:700:GLN:HG3	1:6:701:TYR:H	1.62	0.65
1:b:559:MET:CG	1:b:726:PRO:CD	2.64	0.65
1:c:579:GLN:NE2	1:c:593:THR:OG1	2.29	0.65
1:d:290:HIS:HD2	1:d:366:PRO:HB3	1.61	0.65
1:e:312:ARG:NH2	1:e:684:GLU:OE1	2.29	0.65
1:e:712:GLU:HB3	1:e:724:PRO:HG3	1.78	0.65
1:f:312:ARG:NH2	1:f:684:GLU:OE1	2.29	0.65
1:g:312:ARG:NH2	1:g:684:GLU:OE1	2.29	0.65
1:g:441:ASP:OD2	1:h:550:ARG:NH1	2.28	0.65
1:i:478:TYR:CE2	1:j:623:PRO:HD3	2.32	0.65
1:n:705:TYR:HE1	1:z:391:ARG:NH1	1.94	0.65
1:p:404:MET:HE1	1:p:652:THR:HG21	1.76	0.65
1:r:404:MET:HE1	1:r:652:THR:HG21	1.76	0.65
1:r:442:GLN:HE21	1:s:358:SER:HB3	1.61	0.65
1:t:442:GLN:HE21	1:u:358:SER:HB3	1.60	0.65
1:t:550:ARG:NH1	1:v:441:ASP:OD2	2.29	0.65
1:v:712:GLU:HB3	1:v:724:PRO:HG3	1.78	0.65
1:w:294:SER:OG	1:8:399:TYR:OH	2.13	0.65
1:w:404:MET:HE1	1:w:652:THR:HG21	1.76	0.65
1:y:358:SER:HB3	1:7:442:GLN:HE21	1.61	0.65
1:z:345:PHE:CE1	1:z:400:PHE:HD2	2.14	0.65
1:B:312:ARG:NH2	1:B:684:GLU:OE1	2.29	0.65
1:B:522:PRO:HB2	1:B:524:MET:HE2	1.77	0.65
1:B:623:PRO:HD3	1:L:478:TYR:CE2	2.32	0.65
1:E:252:TYR:OH	1:E:374:ILE:O	2.13	0.65
1:E:712:GLU:HB3	1:E:724:PRO:HG3	1.78	0.65
1:H:294:SER:OG	1:I:399:TYR:OH	2.13	0.65
1:H:404:MET:HG2	1:Z:228:TRP:H	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:553:VAL:HG13	1:I:557:LYS:HE2	1.79	0.65
1:L:312:ARG:NH2	1:L:684:GLU:OE1	2.29	0.65
1:M:550:ARG:NH1	1:2:441:ASP:OD2	2.29	0.65
1:N:441:ASP:OD2	1:P:550:ARG:NH1	2.28	0.65
1:O:623:PRO:HD3	1:h:478:TYR:CE2	2.32	0.65
1:U:243:SER:HB3	1:U:245:ARG:NH1	2.09	0.65
1:U:312:ARG:NH2	1:U:684:GLU:OE1	2.29	0.65
1:V:442:GLN:HE21	1:5:358:SER:HB3	1.61	0.65
1:V:550:ARG:NH1	1:X:441:ASP:OD2	2.28	0.65
1:X:705:TYR:HE1	1:Y:391:ARG:NH1	1.94	0.65
1:5:520:PRO:HG3	1:5:541:LEU:HD23	1.76	0.65
1:5:522:PRO:HB2	1:5:524:MET:HE2	1.77	0.65
1:6:442:GLN:HE21	1:b:358:SER:HB3	1.61	0.65
1:b:705:TYR:HE1	1:c:391:ARG:NH1	1.95	0.65
1:c:290:HIS:HD2	1:c:366:PRO:HB3	1.61	0.65
1:d:243:SER:HB3	1:d:245:ARG:NH1	2.09	0.65
1:d:462:LYS:NZ	1:e:554:ASP:OD1	2.25	0.65
1:e:252:TYR:OH	1:e:374:ILE:O	2.13	0.65
1:h:522:PRO:HB2	1:h:524:MET:HE2	1.77	0.65
1:i:294:SER:OG	1:7:399:TYR:OH	2.13	0.65
1:i:404:MET:HE1	1:i:652:THR:HG21	1.76	0.65
1:k:404:MET:HE1	1:k:652:THR:HG21	1.76	0.65
1:m:559:MET:CG	1:m:726:PRO:CD	2.64	0.65
1:o:478:TYR:CE2	1:p:623:PRO:HD3	2.32	0.65
1:s:553:VAL:HG13	1:s:557:LYS:HE2	1.79	0.65
1:u:243:SER:HB3	1:u:245:ARG:NH1	2.09	0.65
1:v:522:PRO:HB2	1:v:524:MET:HE2	1.77	0.65
1:x:700:GLN:HG3	1:x:701:TYR:H	1.62	0.65
1:A:312:ARG:NH2	1:A:684:GLU:OE1	2.29	0.65
1:A:391:ARG:NH1	1:B:705:TYR:HE1	1.94	0.65
1:A:712:GLU:HB3	1:A:724:PRO:HG3	1.78	0.65
1:D:312:ARG:NH2	1:D:684:GLU:OE1	2.29	0.65
1:E:553:VAL:HG13	1:E:557:LYS:HE2	1.79	0.65
1:E:700:GLN:HG3	1:E:701:TYR:H	1.62	0.65
1:F:243:SER:HB3	1:F:245:ARG:NH1	2.09	0.65
1:G:404:MET:HE1	1:G:652:THR:HG21	1.76	0.65
1:J:522:PRO:HB2	1:J:524:MET:HE2	1.77	0.65
1:K:404:MET:HE1	1:K:652:THR:HG21	1.76	0.65
1:K:705:TYR:HE1	1:L:391:ARG:NH1	1.94	0.65
1:M:705:TYR:HE1	1:N:391:ARG:NH1	1.94	0.65
1:O:358:SER:HB3	1:h:442:GLN:HE21	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:522:PRO:HB2	1:O:524:MET:HE2	1.77	0.65
1:Q:290:HIS:HD2	1:Q:366:PRO:HB3	1.61	0.65
1:Q:579:GLN:NE2	1:Q:593:THR:OG1	2.29	0.65
1:T:243:SER:HB3	1:T:245:ARG:NH1	2.09	0.65
1:V:478:TYR:CE2	1:5:623:PRO:HD3	2.32	0.65
1:V:522:PRO:HB2	1:V:524:MET:HE2	1.77	0.65
1:V:712:GLU:HB3	1:V:724:PRO:HG3	1.78	0.65
1:X:553:VAL:HG13	1:X:557:LYS:HE2	1.79	0.65
1:X:579:GLN:NE2	1:X:593:THR:OG1	2.29	0.65
1:X:623:PRO:HD3	1:5:478:TYR:CE2	2.32	0.65
1:3:312:ARG:NH2	1:3:684:GLU:OE1	2.29	0.65
1:3:700:GLN:HG3	1:3:701:TYR:H	1.62	0.65
1:4:312:ARG:NH2	1:4:684:GLU:OE1	2.29	0.65
1:6:623:PRO:HD3	1:a:478:TYR:CE2	2.31	0.65
1:a:391:ARG:NH1	1:e:705:TYR:HE1	1.95	0.65
1:a:522:PRO:HB2	1:a:524:MET:HE2	1.77	0.65
1:a:700:GLN:HG3	1:a:701:TYR:H	1.62	0.65
1:b:290:HIS:HD2	1:b:366:PRO:HB3	1.61	0.65
1:c:712:GLU:HB3	1:c:724:PRO:HG3	1.78	0.65
1:d:442:GLN:HE21	1:e:358:SER:HB3	1.62	0.65
1:e:553:VAL:HG13	1:e:557:LYS:HE2	1.79	0.65
1:f:522:PRO:HB2	1:f:524:MET:HE2	1.77	0.65
1:g:553:VAL:HG13	1:g:557:LYS:HE2	1.79	0.65
1:g:705:TYR:HE1	1:m:391:ARG:NH1	1.94	0.65
1:h:712:GLU:HB3	1:h:724:PRO:HG3	1.78	0.65
1:i:705:TYR:HE1	1:7:391:ARG:NH1	1.94	0.65
1:k:294:SER:OG	1:s:399:TYR:OH	2.13	0.65
1:k:705:TYR:HE1	1:s:391:ARG:NH1	1.95	0.65
1:n:522:PRO:HB2	1:n:524:MET:HE2	1.77	0.65
1:o:391:ARG:NH1	1:y:705:TYR:HE1	1.94	0.65
1:p:522:PRO:HB2	1:p:524:MET:HE2	1.77	0.65
1:q:712:GLU:HB3	1:q:724:PRO:HG3	1.78	0.65
1:r:478:TYR:CE2	1:s:623:PRO:HD3	2.31	0.65
1:s:520:PRO:HG3	1:s:541:LEU:HD23	1.76	0.65
1:u:522:PRO:HB2	1:u:524:MET:HE2	1.77	0.65
1:w:228:TRP:H	1:8:404:MET:HG2	1.61	0.65
1:w:358:SER:HB3	1:x:442:GLN:HE21	1.61	0.65
1:w:445:TYR:HB3	1:w:463:PHE:HB3	1.76	0.65
1:C:358:SER:HB3	1:M:442:GLN:HE21	1.61	0.65
1:C:522:PRO:HB2	1:C:524:MET:HE2	1.77	0.65
1:D:700:GLN:HG3	1:D:701:TYR:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:705:TYR:HE1	1:G:391:ARG:NH1	1.95	0.65
1:G:478:TYR:CE2	1:I:623:PRO:HD3	2.31	0.65
1:G:721:TYR:HH	1:H:695:TRP:HZ2	1.45	0.65
1:H:404:MET:HE1	1:H:652:THR:HG21	1.76	0.65
1:H:705:TYR:HE1	1:I:391:ARG:NH1	1.95	0.65
1:N:700:GLN:HG3	1:N:701:TYR:H	1.62	0.65
1:O:478:TYR:CE2	1:g:623:PRO:HD3	2.32	0.65
1:O:520:PRO:HG3	1:O:541:LEU:HD23	1.76	0.65
1:Q:712:GLU:HB3	1:Q:724:PRO:HG3	1.78	0.65
1:R:522:PRO:HB2	1:R:524:MET:HE2	1.77	0.65
1:R:553:VAL:HG13	1:R:557:LYS:HE2	1.79	0.65
1:S:228:TRP:H	1:4:404:MET:HG2	1.59	0.65
1:X:700:GLN:HG3	1:X:701:TYR:H	1.62	0.65
1:Z:358:SER:HB3	1:w:442:GLN:HE21	1.62	0.65
1:Z:550:ARG:NH1	1:w:441:ASP:OD2	2.27	0.65
1:Z:623:PRO:HD3	1:w:478:TYR:CE2	2.32	0.65
1:2:345:PHE:CE1	1:2:400:PHE:HD2	2.14	0.65
1:2:522:PRO:HB2	1:2:524:MET:HE2	1.77	0.65
1:4:553:VAL:HG13	1:4:557:LYS:HE2	1.79	0.65
1:5:312:ARG:NH2	1:5:684:GLU:OE1	2.29	0.65
1:6:441:ASP:OD2	1:b:550:ARG:NH1	2.28	0.65
1:a:228:TRP:H	1:u:404:MET:HG2	1.59	0.65
1:a:312:ARG:NH2	1:a:684:GLU:OE1	2.29	0.65
1:a:404:MET:HG2	1:e:228:TRP:H	1.60	0.65
1:a:553:VAL:HG13	1:a:557:LYS:HE2	1.79	0.65
1:a:705:TYR:HE1	1:u:391:ARG:NH1	1.94	0.65
1:b:243:SER:HB3	1:b:245:ARG:NH1	2.09	0.65
1:e:700:GLN:HG3	1:e:701:TYR:H	1.62	0.65
1:f:553:VAL:HG13	1:f:557:LYS:HE2	1.79	0.65
1:g:700:GLN:HG3	1:g:701:TYR:H	1.62	0.65
1:h:252:TYR:OH	1:h:374:ILE:O	2.13	0.65
1:i:290:HIS:HD2	1:i:366:PRO:HB3	1.61	0.65
1:i:445:TYR:HB3	1:i:463:PHE:HB3	1.76	0.65
1:k:550:ARG:NH1	1:m:441:ASP:OD2	2.29	0.65
1:l:290:HIS:HD2	1:l:366:PRO:HB3	1.61	0.65
1:n:243:SER:HB3	1:n:245:ARG:NH1	2.09	0.65
1:n:391:ARG:NH1	1:s:705:TYR:HE1	1.94	0.65
1:q:312:ARG:NH2	1:q:684:GLU:OE1	2.29	0.65
1:u:478:TYR:CE2	1:v:623:PRO:HD3	2.31	0.65
1:w:553:VAL:HG13	1:w:557:LYS:HE2	1.79	0.65
1:z:290:HIS:HD2	1:z:366:PRO:HB3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:243:SER:HB3	1:C:245:ARG:NH1	2.09	0.65
1:F:358:SER:HB3	1:Q:442:GLN:HE21	1.61	0.65
1:G:553:VAL:HG13	1:G:557:LYS:HE2	1.79	0.65
1:H:550:ARG:NH1	1:Y:441:ASP:OD2	2.29	0.65
1:I:520:PRO:HG3	1:I:541:LEU:HD23	1.76	0.65
1:J:243:SER:HB3	1:J:245:ARG:NH1	2.09	0.65
1:J:345:PHE:CE1	1:J:400:PHE:HD2	2.14	0.65
1:N:553:VAL:HG13	1:N:557:LYS:HE2	1.79	0.65
1:O:294:SER:OG	1:P:399:TYR:OH	2.13	0.65
1:O:553:VAL:HG13	1:O:557:LYS:HE2	1.79	0.65
1:R:623:PRO:HD3	1:U:478:TYR:CE2	2.32	0.65
1:U:553:VAL:HG13	1:U:557:LYS:HE2	1.79	0.65
1:V:623:PRO:HD3	1:X:478:TYR:CE2	2.32	0.65
1:Y:579:GLN:NE2	1:Y:593:THR:OG1	2.29	0.65
1:Z:522:PRO:HB2	1:Z:524:MET:HE2	1.77	0.65
1:3:442:GLN:HE21	1:i:358:SER:HB3	1.61	0.65
1:3:522:PRO:HB2	1:3:524:MET:HE2	1.77	0.65
1:4:478:TYR:CE2	1:f:623:PRO:HD3	2.32	0.65
1:6:553:VAL:HG13	1:6:557:LYS:HE2	1.79	0.65
1:b:522:PRO:HB2	1:b:524:MET:HE2	1.77	0.65
1:d:441:ASP:OD2	1:e:550:ARG:NH1	2.29	0.65
1:i:700:GLN:HG3	1:i:701:TYR:H	1.62	0.65
1:j:228:TRP:H	1:k:404:MET:HG2	1.60	0.65
1:j:700:GLN:HG3	1:j:701:TYR:H	1.62	0.65
1:q:290:HIS:HD2	1:q:366:PRO:HB3	1.61	0.65
1:q:442:GLN:HE21	1:r:358:SER:HB3	1.60	0.65
1:q:553:VAL:HG13	1:q:557:LYS:HE2	1.79	0.65
1:r:553:VAL:HG13	1:r:557:LYS:HE2	1.79	0.65
1:s:700:GLN:HG3	1:s:701:TYR:H	1.62	0.65
1:u:290:HIS:HD2	1:u:366:PRO:HB3	1.61	0.65
1:w:700:GLN:HG3	1:w:701:TYR:H	1.62	0.65
1:x:312:ARG:NH2	1:x:684:GLU:OE1	2.29	0.65
1:y:404:MET:HE1	1:y:652:THR:HG21	1.76	0.65
1:A:290:HIS:HD2	1:A:366:PRO:HB3	1.61	0.65
1:A:553:VAL:HG13	1:A:557:LYS:HE2	1.79	0.65
1:C:290:HIS:HD2	1:C:366:PRO:HB3	1.61	0.65
1:C:478:TYR:CE2	1:2:623:PRO:HD3	2.32	0.65
1:D:522:PRO:HB2	1:D:524:MET:HE2	1.77	0.65
1:D:553:VAL:HG13	1:D:557:LYS:HE2	1.79	0.65
1:D:623:PRO:HD3	1:P:478:TYR:CE2	2.31	0.65
1:F:623:PRO:HD3	1:Q:478:TYR:CE2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:522:PRO:HB2	1:G:524:MET:HE2	1.77	0.65
1:H:442:GLN:HE21	1:W:358:SER:HB3	1.61	0.65
1:I:705:TYR:HE1	1:J:391:ARG:NH1	1.95	0.65
1:K:290:HIS:HD2	1:K:366:PRO:HB3	1.61	0.65
1:M:391:ARG:NH1	1:3:705:TYR:HE1	1.95	0.65
1:N:712:GLU:HB3	1:N:724:PRO:HG3	1.78	0.65
1:O:312:ARG:NH2	1:O:684:GLU:OE1	2.29	0.65
1:P:522:PRO:HB2	1:P:524:MET:HE2	1.77	0.65
1:P:553:VAL:HG13	1:P:557:LYS:HE2	1.79	0.65
1:P:559:MET:CG	1:P:726:PRO:CD	2.64	0.65
1:R:712:GLU:HB3	1:R:724:PRO:HG3	1.78	0.65
1:T:228:TRP:H	1:U:404:MET:HG2	1.59	0.65
1:W:290:HIS:HD2	1:W:366:PRO:HB3	1.61	0.65
1:Z:700:GLN:HG3	1:Z:701:TYR:H	1.62	0.65
1:1:290:HIS:HD2	1:1:366:PRO:HB3	1.61	0.65
1:3:712:GLU:HB3	1:3:724:PRO:HG3	1.78	0.65
1:a:623:PRO:HD3	1:b:478:TYR:CE2	2.31	0.65
1:b:553:VAL:HG13	1:b:557:LYS:HE2	1.79	0.65
1:e:399:TYR:OH	1:q:294:SER:OG	2.13	0.65
1:g:442:GLN:HE21	1:h:358:SER:HB3	1.61	0.65
1:i:553:VAL:HG13	1:i:557:LYS:HE2	1.79	0.65
1:j:522:PRO:HB2	1:j:524:MET:HE2	1.77	0.65
1:j:705:TYR:HE1	1:k:391:ARG:NH1	1.95	0.65
1:n:345:PHE:CE1	1:n:400:PHE:HD2	2.14	0.65
1:n:462:LYS:NZ	1:o:554:ASP:OD1	2.26	0.65
1:q:345:PHE:CE1	1:q:400:PHE:HD2	2.14	0.65
1:t:399:TYR:OH	1:x:294:SER:OG	2.13	0.65
1:v:345:PHE:CE1	1:v:400:PHE:HD2	2.14	0.65
1:w:243:SER:HB3	1:w:245:ARG:NH1	2.09	0.65
1:z:700:GLN:HG3	1:z:701:TYR:H	1.62	0.65
1:C:391:ARG:NH1	1:D:705:TYR:HE1	1.94	0.65
1:C:404:MET:HG2	1:D:228:TRP:H	1.59	0.65
1:E:550:ARG:NH1	1:F:441:ASP:OD2	2.28	0.65
1:G:290:HIS:HD2	1:G:366:PRO:HB3	1.61	0.65
1:H:391:ARG:NH1	1:Z:705:TYR:HE1	1.95	0.65
1:I:700:GLN:HG3	1:I:701:TYR:H	1.62	0.65
1:J:309:ARG:NH2	1:J:686:GLU:OE1	2.27	0.65
1:J:478:TYR:CE2	1:L:623:PRO:HD3	2.32	0.65
1:P:243:SER:HB3	1:P:245:ARG:NH1	2.09	0.65
1:R:700:GLN:HG3	1:R:701:TYR:H	1.62	0.65
1:T:550:ARG:NH1	1:f:441:ASP:OD2	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:252:TYR:OH	1:V:374:ILE:O	2.13	0.65
1:V:358:SER:HB3	1:X:442:GLN:HE21	1.61	0.65
1:W:522:PRO:HB2	1:W:524:MET:HE2	1.77	0.65
1:W:553:VAL:HG13	1:W:557:LYS:HE2	1.79	0.65
1:Y:700:GLN:HG3	1:Y:701:TYR:H	1.62	0.65
1:1:700:GLN:HG3	1:1:701:TYR:H	1.62	0.65
1:5:553:VAL:HG13	1:5:557:LYS:HE2	1.79	0.65
1:6:550:ARG:NH1	1:a:441:ASP:OD2	2.28	0.65
1:6:712:GLU:HB3	1:6:724:PRO:HG3	1.78	0.65
1:g:478:TYR:CE2	1:h:623:PRO:HD3	2.32	0.65
1:l:522:PRO:HB2	1:l:524:MET:HE2	1.77	0.65
1:l:553:VAL:HG13	1:l:557:LYS:HE2	1.79	0.65
1:m:700:GLN:HG3	1:m:701:TYR:H	1.62	0.65
1:n:478:TYR:CE2	1:o:623:PRO:HD3	2.32	0.65
1:r:522:PRO:HB2	1:r:524:MET:HE2	1.77	0.65
1:w:290:HIS:HD2	1:w:366:PRO:HB3	1.61	0.65
1:x:522:PRO:HB2	1:x:524:MET:HE2	1.77	0.65
1:A:294:SER:OG	1:E:399:TYR:OH	2.13	0.65
1:A:345:PHE:CE1	1:A:400:PHE:HD2	2.14	0.65
1:D:441:ASP:OD2	1:N:550:ARG:NH1	2.28	0.65
1:H:309:ARG:NH2	1:H:686:GLU:OE1	2.27	0.65
1:R:290:HIS:HD2	1:R:366:PRO:HB3	1.61	0.65
1:R:441:ASP:OD2	1:S:550:ARG:NH1	2.29	0.65
1:S:441:ASP:OD2	1:U:550:ARG:NH1	2.28	0.65
1:Z:442:GLN:HE21	1:x:358:SER:HB3	1.61	0.65
1:1:553:VAL:HG13	1:1:557:LYS:HE2	1.79	0.65
1:2:700:GLN:HG3	1:2:701:TYR:H	1.62	0.65
1:3:358:SER:HB3	1:j:442:GLN:HE21	1.61	0.65
1:c:553:VAL:HG13	1:c:557:LYS:HE2	1.79	0.65
1:f:700:GLN:HG3	1:f:701:TYR:H	1.62	0.65
1:f:712:GLU:HB3	1:f:724:PRO:HG3	1.78	0.65
1:k:442:GLN:HE21	1:l:358:SER:HB3	1.61	0.65
1:p:712:GLU:HB3	1:p:724:PRO:HG3	1.78	0.65
1:q:352:LEU:HD11	1:q:400:PHE:CE2	2.32	0.65
1:t:358:SER:HB3	1:v:442:GLN:HE21	1.60	0.65
1:v:243:SER:HB3	1:v:245:ARG:NH1	2.09	0.65
1:w:623:PRO:HD3	1:x:478:TYR:CE2	2.31	0.65
1:y:290:HIS:HD2	1:y:366:PRO:HB3	1.61	0.65
1:z:553:VAL:HG13	1:z:557:LYS:HE2	1.79	0.65
1:8:700:GLN:HG3	1:8:701:TYR:H	1.62	0.65
1:A:352:LEU:HD11	1:A:400:PHE:CE2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:554:ASP:OD1	1:F:462:LYS:NZ	2.26	0.64
1:J:462:LYS:NZ	1:L:554:ASP:OD1	2.26	0.64
1:J:553:VAL:HG13	1:J:557:LYS:HE2	1.79	0.64
1:K:441:ASP:OD2	1:1:550:ARG:NH1	2.28	0.64
1:M:358:SER:HB3	1:2:442:GLN:HE21	1.60	0.64
1:O:712:GLU:HB3	1:O:724:PRO:HG3	1.78	0.64
1:Q:553:VAL:HG13	1:Q:557:LYS:HE2	1.79	0.64
1:T:441:ASP:OD2	1:4:550:ARG:NH1	2.28	0.64
1:W:252:TYR:OH	1:W:374:ILE:O	2.13	0.64
1:Z:391:ARG:NH1	1:1:705:TYR:HE1	1.94	0.64
1:2:243:SER:HB3	1:2:245:ARG:NH1	2.09	0.64
1:3:550:ARG:NH1	1:j:441:ASP:OD2	2.28	0.64
1:5:294:SER:OG	1:b:399:TYR:OH	2.13	0.64
1:c:358:SER:HB3	1:e:442:GLN:HE21	1.61	0.64
1:f:391:ARG:NH1	1:h:705:TYR:HE1	1.94	0.64
1:i:243:SER:HB3	1:i:245:ARG:NH1	2.09	0.64
1:i:441:ASP:OD2	1:j:550:ARG:NH1	2.28	0.64
1:j:391:ARG:NH1	1:z:705:TYR:HE1	1.94	0.64
1:j:712:GLU:HB3	1:j:724:PRO:HG3	1.78	0.64
1:q:700:GLN:HG3	1:q:701:TYR:H	1.62	0.64
1:r:290:HIS:HD2	1:r:366:PRO:HB3	1.61	0.64
1:t:391:ARG:NH1	1:x:705:TYR:HE1	1.95	0.64
1:w:345:PHE:CE1	1:w:400:PHE:HD2	2.14	0.64
1:x:712:GLU:HB3	1:x:724:PRO:HG3	1.78	0.64
1:y:441:ASP:OD2	1:z:550:ARG:NH1	2.28	0.64
1:7:700:GLN:HG3	1:7:701:TYR:H	1.62	0.64
1:B:712:GLU:HB3	1:B:724:PRO:HG3	1.78	0.64
1:C:553:VAL:HG13	1:C:557:LYS:HE2	1.79	0.64
1:E:442:GLN:HE21	1:Q:358:SER:HB3	1.61	0.64
1:H:623:PRO:HD3	1:Y:478:TYR:CE2	2.31	0.64
1:N:290:HIS:HD2	1:N:366:PRO:HB3	1.61	0.64
1:N:312:ARG:NH2	1:N:684:GLU:OE1	2.29	0.64
1:R:345:PHE:CE1	1:R:400:PHE:HD2	2.14	0.64
1:T:345:PHE:CE1	1:T:400:PHE:HD2	2.14	0.64
1:T:352:LEU:HD11	1:T:400:PHE:CE2	2.33	0.64
1:V:700:GLN:HG3	1:V:701:TYR:H	1.62	0.64
1:Z:712:GLU:HB3	1:Z:724:PRO:HG3	1.78	0.64
1:3:478:TYR:CE2	1:i:623:PRO:HD3	2.31	0.64
1:6:290:HIS:HD2	1:6:366:PRO:HB3	1.61	0.64
1:6:312:ARG:NH2	1:6:684:GLU:OE1	2.29	0.64
1:d:294:SER:OG	1:r:399:TYR:OH	2.14	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:391:ARG:NH1	1:q:705:TYR:HE1	1.94	0.64
1:f:290:HIS:HD2	1:f:366:PRO:HB3	1.61	0.64
1:i:345:PHE:CE1	1:i:400:PHE:HD2	2.14	0.64
1:k:309:ARG:NH2	1:k:686:GLU:OE1	2.27	0.64
1:k:623:PRO:HD3	1:m:478:TYR:CE2	2.31	0.64
1:l:252:TYR:OH	1:l:374:ILE:O	2.13	0.64
1:n:309:ARG:NH2	1:n:686:GLU:OE1	2.27	0.64
1:v:700:GLN:HG3	1:v:701:TYR:H	1.62	0.64
1:X:550:ARG:NH1	1:5:441:ASP:OD2	2.28	0.64
1:Z:312:ARG:NH2	1:Z:684:GLU:OE1	2.29	0.64
1:a:290:HIS:HD2	1:a:366:PRO:HB3	1.61	0.64
1:b:579:GLN:NE2	1:b:593:THR:OG1	2.29	0.64
1:h:700:GLN:HG3	1:h:701:TYR:H	1.62	0.64
1:n:553:VAL:HG13	1:n:557:LYS:HE2	1.79	0.64
1:q:478:TYR:CE2	1:r:623:PRO:HD3	2.31	0.64
1:u:700:GLN:HG3	1:u:701:TYR:H	1.62	0.64
1:7:579:GLN:NE2	1:7:593:THR:OG1	2.29	0.64
1:8:579:GLN:NE2	1:8:593:THR:OG1	2.29	0.64
1:A:442:GLN:HE21	1:G:358:SER:HB3	1.61	0.64
1:A:700:GLN:HG3	1:A:701:TYR:H	1.62	0.64
1:D:243:SER:HB3	1:D:245:ARG:NH1	2.09	0.64
1:H:262:ASN:HD22	1:H:273:ALA:HA	1.63	0.64
1:I:262:ASN:ND2	1:I:273:ALA:HA	2.13	0.64
1:R:391:ARG:NH1	1:V:705:TYR:HE1	1.94	0.64
1:S:345:PHE:CE1	1:S:400:PHE:HD2	2.14	0.64
1:W:262:ASN:HD22	1:W:273:ALA:HA	1.63	0.64
1:W:352:LEU:HD11	1:W:400:PHE:CE2	2.32	0.64
1:Z:441:ASP:OD2	1:x:550:ARG:NH1	2.28	0.64
1:1:262:ASN:HD22	1:1:273:ALA:HA	1.63	0.64
1:5:712:GLU:HB3	1:5:724:PRO:HG3	1.78	0.64
1:c:442:GLN:HE21	1:d:358:SER:HB3	1.61	0.64
1:f:345:PHE:CE1	1:f:400:PHE:HD2	2.14	0.64
1:g:243:SER:HB3	1:g:245:ARG:NH1	2.09	0.64
1:k:553:VAL:HG13	1:k:557:LYS:HE2	1.79	0.64
1:l:262:ASN:HD22	1:l:273:ALA:HA	1.63	0.64
1:l:352:LEU:HD11	1:l:400:PHE:CE2	2.32	0.64
1:o:262:ASN:HD22	1:o:273:ALA:HA	1.63	0.64
1:s:262:ASN:ND2	1:s:273:ALA:HA	2.13	0.64
1:z:262:ASN:HD22	1:z:273:ALA:HA	1.63	0.64
1:C:700:GLN:HG3	1:C:701:TYR:H	1.62	0.64
1:E:262:ASN:HD22	1:E:273:ALA:HA	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:623:PRO:HD3	1:F:478:TYR:CE2	2.31	0.64
1:H:553:VAL:HG13	1:H:557:LYS:HE2	1.79	0.64
1:J:262:ASN:HD22	1:J:273:ALA:HA	1.63	0.64
1:K:262:ASN:ND2	1:K:273:ALA:HA	2.13	0.64
1:K:700:GLN:HG3	1:K:701:TYR:H	1.62	0.64
1:L:262:ASN:HD22	1:L:273:ALA:HA	1.63	0.64
1:N:352:LEU:HD11	1:N:400:PHE:CE2	2.32	0.64
1:P:579:GLN:NE2	1:P:593:THR:OG1	2.29	0.64
1:Q:705:TYR:HE1	1:S:391:ARG:NH1	1.94	0.64
1:T:705:TYR:HE1	1:U:391:ARG:NH1	1.94	0.64
1:Y:262:ASN:ND2	1:Y:273:ALA:HA	2.13	0.64
1:2:290:HIS:HD2	1:2:366:PRO:HB3	1.61	0.64
1:3:352:LEU:HD11	1:3:400:PHE:CE2	2.32	0.64
1:6:352:LEU:HD11	1:6:400:PHE:CE2	2.32	0.64
1:a:243:SER:HB3	1:a:245:ARG:NH1	2.09	0.64
1:e:579:GLN:NE2	1:e:593:THR:OG1	2.29	0.64
1:j:312:ARG:NH2	1:j:684:GLU:OE1	2.29	0.64
1:k:262:ASN:HD22	1:k:273:ALA:HA	1.63	0.64
1:m:262:ASN:ND2	1:m:273:ALA:HA	2.13	0.64
1:n:262:ASN:HD22	1:n:273:ALA:HA	1.63	0.64
1:p:700:GLN:HG3	1:p:701:TYR:H	1.62	0.64
1:u:553:VAL:HG13	1:u:557:LYS:HE2	1.79	0.64
1:x:352:LEU:HD11	1:x:400:PHE:CE2	2.32	0.64
1:7:243:SER:HB3	1:7:245:ARG:NH1	2.09	0.64
1:8:243:SER:HB3	1:8:245:ARG:NH1	2.09	0.64
1:D:290:HIS:HD2	1:D:366:PRO:HB3	1.61	0.64
1:E:579:GLN:NE2	1:E:593:THR:OG1	2.29	0.64
1:G:352:LEU:HD11	1:G:400:PHE:CE2	2.32	0.64
1:J:290:HIS:HD2	1:J:366:PRO:HB3	1.61	0.64
1:M:553:VAL:HG13	1:M:557:LYS:HE2	1.79	0.64
1:N:262:ASN:HD22	1:N:273:ALA:HA	1.63	0.64
1:O:441:ASP:OD2	1:g:550:ARG:NH1	2.28	0.64
1:P:352:LEU:HD11	1:P:400:PHE:CE2	2.32	0.64
1:Q:262:ASN:ND2	1:Q:273:ALA:HA	2.13	0.64
1:V:243:SER:HB3	1:V:245:ARG:NH1	2.09	0.64
1:3:290:HIS:HD2	1:3:366:PRO:HB3	1.61	0.64
1:5:700:GLN:HG3	1:5:701:TYR:H	1.62	0.64
1:6:262:ASN:HD22	1:6:273:ALA:HA	1.63	0.64
1:a:262:ASN:HD22	1:a:273:ALA:HA	1.63	0.64
1:c:262:ASN:ND2	1:c:273:ALA:HA	2.13	0.64
1:e:262:ASN:HD22	1:e:273:ALA:HA	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:391:ARG:NH1	1:r:705:TYR:HE1	1.95	0.64
1:m:712:GLU:HB3	1:m:724:PRO:HG3	1.78	0.64
1:n:623:PRO:HD3	1:p:478:TYR:CE2	2.32	0.64
1:p:553:VAL:HG13	1:p:557:LYS:HE2	1.79	0.64
1:p:559:MET:CG	1:p:726:PRO:CD	2.64	0.64
1:r:352:LEU:HD11	1:r:400:PHE:CE2	2.32	0.64
1:t:290:HIS:HD2	1:t:366:PRO:HB3	1.61	0.64
1:t:553:VAL:HG13	1:t:557:LYS:HE2	1.79	0.64
1:x:262:ASN:ND2	1:x:273:ALA:HA	2.13	0.64
1:x:290:HIS:HD2	1:x:366:PRO:HB3	1.61	0.64
1:y:262:ASN:ND2	1:y:273:ALA:HA	2.13	0.64
1:7:712:GLU:HB3	1:7:724:PRO:HG3	1.78	0.64
1:B:352:LEU:HD11	1:B:400:PHE:CE2	2.32	0.64
1:B:700:GLN:HG3	1:B:701:TYR:H	1.62	0.64
1:C:721:TYR:HH	1:L:695:TRP:HZ2	1.46	0.64
1:D:262:ASN:HD22	1:D:273:ALA:HA	1.63	0.64
1:E:243:SER:HB3	1:E:245:ARG:NH1	2.09	0.64
1:G:705:TYR:HE1	1:W:391:ARG:NH1	1.95	0.64
1:K:478:TYR:CE2	1:1:623:PRO:HD3	2.32	0.64
1:M:290:HIS:HD2	1:M:366:PRO:HB3	1.61	0.64
1:N:262:ASN:ND2	1:N:273:ALA:HA	2.13	0.64
1:S:478:TYR:CE2	1:U:623:PRO:HD3	2.31	0.64
1:S:712:GLU:HB3	1:S:724:PRO:HG3	1.78	0.64
1:T:478:TYR:CE2	1:4:623:PRO:HD3	2.31	0.64
1:V:553:VAL:HG13	1:V:557:LYS:HE2	1.79	0.64
1:X:243:SER:HB3	1:X:245:ARG:NH1	2.09	0.64
1:Z:262:ASN:ND2	1:Z:273:ALA:HA	2.13	0.64
1:2:553:VAL:HG13	1:2:557:LYS:HE2	1.79	0.64
1:3:262:ASN:ND2	1:3:273:ALA:HA	2.13	0.64
1:5:262:ASN:HD22	1:5:273:ALA:HA	1.63	0.64
1:6:262:ASN:ND2	1:6:273:ALA:HA	2.13	0.64
1:b:352:LEU:HD11	1:b:400:PHE:CE2	2.32	0.64
1:e:262:ASN:ND2	1:e:273:ALA:HA	2.13	0.64
1:f:262:ASN:ND2	1:f:273:ALA:HA	2.13	0.64
1:g:352:LEU:HD11	1:g:400:PHE:CE2	2.32	0.64
1:h:436:MET:CE	1:h:471:MET:HG2	2.27	0.64
1:p:352:LEU:HD11	1:p:400:PHE:CE2	2.32	0.64
1:t:262:ASN:ND2	1:t:273:ALA:HA	2.13	0.64
1:v:290:HIS:HD2	1:v:366:PRO:HB3	1.61	0.64
1:y:391:ARG:NH1	1:8:705:TYR:HE1	1.94	0.64
1:y:700:GLN:HG3	1:y:701:TYR:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:553:VAL:HG13	1:8:557:LYS:HE2	1.79	0.64
1:A:478:TYR:CE2	1:G:623:PRO:HD3	2.32	0.64
1:B:553:VAL:HG13	1:B:557:LYS:HE2	1.79	0.64
1:E:262:ASN:ND2	1:E:273:ALA:HA	2.13	0.64
1:F:700:GLN:HG3	1:F:701:TYR:H	1.62	0.64
1:G:262:ASN:HD22	1:G:273:ALA:HA	1.63	0.64
1:I:262:ASN:HD22	1:I:273:ALA:HA	1.63	0.64
1:J:559:MET:CG	1:J:726:PRO:CD	2.64	0.64
1:M:262:ASN:ND2	1:M:273:ALA:HA	2.13	0.64
1:O:700:GLN:HG3	1:O:701:TYR:H	1.62	0.64
1:R:262:ASN:ND2	1:R:273:ALA:HA	2.13	0.64
1:S:705:TYR:HE1	1:4:391:ARG:NH1	1.94	0.64
1:V:436:MET:CE	1:V:471:MET:HG2	2.27	0.64
1:Y:712:GLU:HB3	1:Y:724:PRO:HG3	1.78	0.64
1:Z:262:ASN:HD22	1:Z:273:ALA:HA	1.63	0.64
1:h:553:VAL:HG13	1:h:557:LYS:HE2	1.79	0.64
1:i:262:ASN:HD22	1:i:273:ALA:HA	1.63	0.64
1:j:262:ASN:ND2	1:j:273:ALA:HA	2.13	0.64
1:n:579:GLN:NE2	1:n:593:THR:OG1	2.29	0.64
1:o:695:TRP:HZ2	1:u:721:TYR:HH	1.46	0.64
1:r:262:ASN:HD22	1:r:273:ALA:HA	1.63	0.64
1:s:262:ASN:HD22	1:s:273:ALA:HA	1.63	0.64
1:v:553:VAL:HG13	1:v:557:LYS:HE2	1.79	0.64
1:w:262:ASN:HD22	1:w:273:ALA:HA	1.63	0.64
1:7:553:VAL:HG13	1:7:557:LYS:HE2	1.79	0.64
1:B:478:TYR:CE2	1:J:623:PRO:HD3	2.32	0.64
1:I:712:GLU:HB3	1:I:724:PRO:HG3	1.78	0.64
1:K:391:ARG:NH1	1:7:705:TYR:HE1	1.94	0.64
1:K:553:VAL:HG13	1:K:557:LYS:HE2	1.79	0.64
1:O:262:ASN:HD22	1:O:273:ALA:HA	1.63	0.64
1:R:262:ASN:HD22	1:R:273:ALA:HA	1.63	0.64
1:T:712:GLU:HB3	1:T:724:PRO:HG3	1.78	0.64
1:U:352:LEU:HD21	1:U:400:PHE:CZ	2.33	0.64
1:V:262:ASN:ND2	1:V:273:ALA:HA	2.13	0.64
1:X:309:ARG:NH2	1:X:686:GLU:OE1	2.27	0.64
1:Y:553:VAL:HG13	1:Y:557:LYS:HE2	1.79	0.64
1:4:352:LEU:HD21	1:4:400:PHE:CZ	2.33	0.64
1:c:478:TYR:CE2	1:d:623:PRO:HD3	2.33	0.64
1:d:553:VAL:HG13	1:d:557:LYS:HE2	1.79	0.64
1:e:243:SER:HB3	1:e:245:ARG:NH1	2.09	0.64
1:g:559:MET:CG	1:g:726:PRO:CD	2.64	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:262:ASN:HD22	1:j:273:ALA:HA	1.63	0.64
1:m:553:VAL:HG13	1:m:557:LYS:HE2	1.79	0.64
1:n:262:ASN:ND2	1:n:273:ALA:HA	2.13	0.64
1:n:290:HIS:HD2	1:n:366:PRO:HB3	1.61	0.64
1:n:352:LEU:HD11	1:n:400:PHE:CE2	2.33	0.64
1:w:352:LEU:HD21	1:w:400:PHE:CZ	2.33	0.64
1:y:478:TYR:CE2	1:z:623:PRO:HD3	2.32	0.64
1:y:553:VAL:HG13	1:y:557:LYS:HE2	1.79	0.64
1:8:712:GLU:HB3	1:8:724:PRO:HG3	1.78	0.64
1:A:352:LEU:HD21	1:A:400:PHE:CZ	2.34	0.64
1:B:559:MET:CG	1:B:726:PRO:CD	2.64	0.64
1:F:553:VAL:HG13	1:F:557:LYS:HE2	1.79	0.64
1:G:352:LEU:HD21	1:G:400:PHE:CZ	2.33	0.64
1:G:700:GLN:HG3	1:G:701:TYR:H	1.62	0.64
1:J:262:ASN:ND2	1:J:273:ALA:HA	2.13	0.64
1:J:352:LEU:HD11	1:J:400:PHE:CE2	2.32	0.64
1:J:579:GLN:NE2	1:J:593:THR:OG1	2.29	0.64
1:K:252:TYR:OH	1:K:374:ILE:O	2.13	0.64
1:K:550:ARG:NH1	1:8:441:ASP:OD2	2.28	0.64
1:L:553:VAL:HG13	1:L:557:LYS:HE2	1.79	0.64
1:Q:352:LEU:HD21	1:Q:400:PHE:CZ	2.33	0.64
1:T:553:VAL:HG13	1:T:557:LYS:HE2	1.79	0.64
1:T:700:GLN:HG3	1:T:701:TYR:H	1.62	0.64
1:X:352:LEU:HD11	1:X:400:PHE:CE2	2.33	0.64
1:4:262:ASN:HD22	1:4:273:ALA:HA	1.63	0.64
1:a:352:LEU:HD21	1:a:400:PHE:CZ	2.34	0.64
1:d:700:GLN:HG3	1:d:701:TYR:H	1.62	0.64
1:f:279:THR:OG1	1:f:377:TYR:O	2.16	0.64
1:h:243:SER:HB3	1:h:245:ARG:NH1	2.09	0.64
1:h:262:ASN:ND2	1:h:273:ALA:HA	2.13	0.64
1:i:352:LEU:HD21	1:i:400:PHE:CZ	2.33	0.64
1:j:252:TYR:OH	1:j:374:ILE:O	2.13	0.64
1:o:553:VAL:HG13	1:o:557:LYS:HE2	1.79	0.64
1:y:309:ARG:NH2	1:y:686:GLU:OE1	2.27	0.64
1:z:352:LEU:HD21	1:z:400:PHE:CZ	2.33	0.64
1:D:352:LEU:HD21	1:D:400:PHE:CZ	2.34	0.63
1:G:262:ASN:ND2	1:G:273:ALA:HA	2.13	0.63
1:K:279:THR:OG1	1:K:377:TYR:O	2.16	0.63
1:R:279:THR:OG1	1:R:377:TYR:O	2.16	0.63
1:S:553:VAL:HG13	1:S:557:LYS:HE2	1.79	0.63
1:S:700:GLN:HG3	1:S:701:TYR:H	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:352:LEU:HD21	1:1:400:PHE:CZ	2.34	0.63
1:b:262:ASN:ND2	1:b:273:ALA:HA	2.13	0.63
1:c:352:LEU:HD21	1:c:400:PHE:CZ	2.33	0.63
1:f:262:ASN:HD22	1:f:273:ALA:HA	1.63	0.63
1:f:399:TYR:OH	1:h:294:SER:OG	2.13	0.63
1:n:352:LEU:HD21	1:n:400:PHE:CZ	2.33	0.63
1:o:700:GLN:HG3	1:o:701:TYR:H	1.62	0.63
1:q:352:LEU:HD21	1:q:400:PHE:CZ	2.34	0.63
1:r:352:LEU:HD21	1:r:400:PHE:CZ	2.34	0.63
1:r:700:GLN:HG3	1:r:701:TYR:H	1.62	0.63
1:s:243:SER:HB3	1:s:245:ARG:NH1	2.09	0.63
1:s:712:GLU:HB3	1:s:724:PRO:HG3	1.78	0.63
1:t:262:ASN:HD22	1:t:273:ALA:HA	1.63	0.63
1:w:262:ASN:ND2	1:w:273:ALA:HA	2.13	0.63
1:y:352:LEU:HD21	1:y:400:PHE:CZ	2.33	0.63
1:7:262:ASN:ND2	1:7:273:ALA:HA	2.13	0.63
1:8:262:ASN:ND2	1:8:273:ALA:HA	2.13	0.63
1:A:554:ASP:OD1	1:I:462:LYS:NZ	2.25	0.63
1:A:705:TYR:HE1	1:E:391:ARG:NH1	1.95	0.63
1:H:441:ASP:OD2	1:W:550:ARG:NH1	2.28	0.63
1:I:243:SER:HB3	1:I:245:ARG:NH1	2.09	0.63
1:J:352:LEU:HD21	1:J:400:PHE:CZ	2.33	0.63
1:K:309:ARG:NH2	1:K:686:GLU:OE1	2.27	0.63
1:K:352:LEU:HD21	1:K:400:PHE:CZ	2.33	0.63
1:M:262:ASN:HD22	1:M:273:ALA:HA	1.63	0.63
1:M:352:LEU:HD21	1:M:400:PHE:CZ	2.34	0.63
1:O:579:GLN:NE2	1:O:593:THR:OG1	2.29	0.63
1:P:262:ASN:ND2	1:P:273:ALA:HA	2.13	0.63
1:U:262:ASN:HD22	1:U:273:ALA:HA	1.63	0.63
1:W:352:LEU:HD21	1:W:400:PHE:CZ	2.34	0.63
1:Y:243:SER:HB3	1:Y:245:ARG:NH1	2.09	0.63
1:Z:252:TYR:OH	1:Z:374:ILE:O	2.13	0.63
1:Z:352:LEU:HD21	1:Z:400:PHE:CZ	2.34	0.63
1:5:579:GLN:NE2	1:5:593:THR:OG1	2.29	0.63
1:c:309:ARG:NH2	1:c:686:GLU:OE1	2.27	0.63
1:d:228:TRP:H	1:r:404:MET:HG2	1.63	0.63
1:e:352:LEU:HD21	1:e:400:PHE:CZ	2.33	0.63
1:f:352:LEU:HD21	1:f:400:PHE:CZ	2.33	0.63
1:g:309:ARG:NH2	1:g:686:GLU:OE1	2.27	0.63
1:i:262:ASN:ND2	1:i:273:ALA:HA	2.13	0.63
1:j:352:LEU:HD21	1:j:400:PHE:CZ	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:441:ASP:OD2	1:l:550:ARG:NH1	2.28	0.63
1:k:700:GLN:HG3	1:k:701:TYR:H	1.62	0.63
1:l:352:LEU:HD21	1:l:400:PHE:CZ	2.34	0.63
1:r:262:ASN:ND2	1:r:273:ALA:HA	2.13	0.63
1:s:579:GLN:NE2	1:s:593:THR:OG1	2.29	0.63
1:t:352:LEU:HD21	1:t:400:PHE:CZ	2.34	0.63
1:u:341:THR:HG1	1:u:652:THR:HG1	1.45	0.63
1:y:252:TYR:OH	1:y:374:ILE:O	2.13	0.63
1:y:279:THR:OG1	1:y:377:TYR:O	2.16	0.63
1:8:352:LEU:HD11	1:8:400:PHE:CE2	2.32	0.63
1:D:252:TYR:OH	1:D:374:ILE:O	2.13	0.63
1:E:352:LEU:HD21	1:E:400:PHE:CZ	2.34	0.63
1:J:700:GLN:HG3	1:J:701:TYR:H	1.62	0.63
1:Q:262:ASN:HD22	1:Q:273:ALA:HA	1.63	0.63
1:R:352:LEU:HD21	1:R:400:PHE:CZ	2.33	0.63
1:R:399:TYR:OH	1:V:294:SER:OG	2.13	0.63
1:S:262:ASN:ND2	1:S:273:ALA:HA	2.13	0.63
1:X:559:MET:CG	1:X:726:PRO:CD	2.64	0.63
1:Z:553:VAL:HG13	1:Z:557:LYS:HE2	1.79	0.63
1:2:352:LEU:HD21	1:2:400:PHE:CZ	2.34	0.63
1:5:262:ASN:ND2	1:5:273:ALA:HA	2.13	0.63
1:g:352:LEU:HD21	1:g:400:PHE:CZ	2.33	0.63
1:k:252:TYR:OH	1:k:374:ILE:O	2.13	0.63
1:m:243:SER:HB3	1:m:245:ARG:NH1	2.09	0.63
1:n:559:MET:CG	1:n:726:PRO:CD	2.64	0.63
1:v:352:LEU:HD21	1:v:400:PHE:CZ	2.33	0.63
1:w:579:GLN:NE2	1:w:593:THR:OG1	2.29	0.63
1:y:550:ARG:NH1	1:7:441:ASP:OD2	2.28	0.63
1:y:559:MET:CG	1:y:726:PRO:CD	2.64	0.63
1:z:262:ASN:ND2	1:z:273:ALA:HA	2.13	0.63
1:I:579:GLN:NE2	1:I:593:THR:OG1	2.29	0.63
1:M:700:GLN:HG3	1:M:701:TYR:H	1.62	0.63
1:U:700:GLN:HG3	1:U:701:TYR:H	1.62	0.63
1:X:352:LEU:HD21	1:X:400:PHE:CZ	2.33	0.63
1:5:279:THR:OG1	1:5:377:TYR:O	2.16	0.63
1:c:554:ASP:OD1	1:e:462:LYS:NZ	2.26	0.63
1:d:262:ASN:HD22	1:d:273:ALA:HA	1.63	0.63
1:i:579:GLN:NE2	1:i:593:THR:OG1	2.29	0.63
1:m:262:ASN:HD22	1:m:273:ALA:HA	1.63	0.63
1:t:700:GLN:HG3	1:t:701:TYR:H	1.62	0.63
1:A:262:ASN:HD22	1:A:273:ALA:HA	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:252:TYR:OH	1:H:374:ILE:O	2.13	0.63
1:I:352:LEU:HD21	1:I:400:PHE:CZ	2.34	0.63
1:L:352:LEU:HD11	1:L:400:PHE:CE2	2.32	0.63
1:L:700:GLN:HG3	1:L:701:TYR:H	1.62	0.63
1:Q:309:ARG:NH2	1:Q:686:GLU:OE1	2.27	0.63
1:T:391:ARG:NH1	1:c:705:TYR:HE1	1.95	0.63
1:W:262:ASN:ND2	1:W:273:ALA:HA	2.13	0.63
1:Y:262:ASN:HD22	1:Y:273:ALA:HA	1.63	0.63
1:1:262:ASN:ND2	1:1:273:ALA:HA	2.13	0.63
1:c:262:ASN:HD22	1:c:273:ALA:HA	1.63	0.63
1:d:262:ASN:ND2	1:d:273:ALA:HA	2.13	0.63
1:o:262:ASN:ND2	1:o:273:ALA:HA	2.13	0.63
1:q:262:ASN:HD22	1:q:273:ALA:HA	1.63	0.63
1:q:579:GLN:NE2	1:q:593:THR:OG1	2.29	0.63
1:w:341:THR:HG1	1:w:652:THR:HG1	1.43	0.63
1:7:352:LEU:HD11	1:7:400:PHE:CE2	2.33	0.63
1:A:579:GLN:NE2	1:A:593:THR:OG1	2.29	0.63
1:F:262:ASN:HD22	1:F:273:ALA:HA	1.63	0.63
1:F:262:ASN:ND2	1:F:273:ALA:HA	2.13	0.63
1:H:262:ASN:ND2	1:H:273:ALA:HA	2.13	0.63
1:H:700:GLN:HG3	1:H:701:TYR:H	1.62	0.63
1:K:559:MET:CG	1:K:726:PRO:CD	2.64	0.63
1:L:262:ASN:ND2	1:L:273:ALA:HA	2.13	0.63
1:O:262:ASN:ND2	1:O:273:ALA:HA	2.13	0.63
1:T:262:ASN:HD22	1:T:273:ALA:HA	1.63	0.63
1:T:262:ASN:ND2	1:T:273:ALA:HA	2.13	0.63
1:X:262:ASN:ND2	1:X:273:ALA:HA	2.13	0.63
1:2:559:MET:CG	1:2:726:PRO:CD	2.64	0.63
1:3:553:VAL:HG13	1:3:557:LYS:HE2	1.79	0.63
1:4:700:GLN:HG3	1:4:701:TYR:H	1.62	0.63
1:g:262:ASN:ND2	1:g:273:ALA:HA	2.13	0.63
1:h:352:LEU:HD21	1:h:400:PHE:CZ	2.33	0.63
1:j:553:VAL:HG13	1:j:557:LYS:HE2	1.79	0.63
1:k:279:THR:OG1	1:k:377:TYR:O	2.16	0.63
1:n:700:GLN:HG3	1:n:701:TYR:H	1.62	0.63
1:o:352:LEU:HD11	1:o:400:PHE:CE2	2.32	0.63
1:p:262:ASN:HD22	1:p:273:ALA:HA	1.63	0.63
1:p:262:ASN:ND2	1:p:273:ALA:HA	2.13	0.63
1:z:579:GLN:NE2	1:z:593:THR:OG1	2.29	0.63
1:8:352:LEU:HD21	1:8:400:PHE:CZ	2.34	0.63
1:B:262:ASN:ND2	1:B:273:ALA:HA	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:559:MET:CG	1:D:726:PRO:CD	2.64	0.63
1:I:309:ARG:NH2	1:I:686:GLU:OE1	2.27	0.63
1:N:352:LEU:HD21	1:N:400:PHE:CZ	2.34	0.63
1:S:262:ASN:HD22	1:S:273:ALA:HA	1.63	0.63
1:S:352:LEU:HD21	1:S:400:PHE:CZ	2.34	0.63
1:T:352:LEU:HD21	1:T:400:PHE:CZ	2.34	0.63
1:U:309:ARG:NH2	1:U:686:GLU:OE1	2.27	0.63
1:V:441:ASP:OD2	1:5:550:ARG:NH1	2.28	0.63
1:Y:721:TYR:HH	1:Z:695:TRP:HZ2	1.47	0.63
1:Z:309:ARG:NH2	1:Z:686:GLU:OE1	2.27	0.63
1:j:309:ARG:NH2	1:j:686:GLU:OE1	2.27	0.63
1:k:262:ASN:ND2	1:k:273:ALA:HA	2.13	0.63
1:l:262:ASN:ND2	1:l:273:ALA:HA	2.13	0.63
1:l:700:GLN:HG3	1:l:701:TYR:H	1.62	0.63
1:m:352:LEU:HD21	1:m:400:PHE:CZ	2.33	0.63
1:s:352:LEU:HD21	1:s:400:PHE:CZ	2.34	0.63
1:w:279:THR:OG1	1:w:377:TYR:O	2.16	0.63
1:x:352:LEU:HD21	1:x:400:PHE:CZ	2.34	0.63
1:7:352:LEU:HD21	1:7:400:PHE:CZ	2.34	0.63
1:A:550:ARG:NH1	1:I:441:ASP:OD2	2.28	0.63
1:H:279:THR:OG1	1:H:377:TYR:O	2.16	0.63
1:M:294:SER:OG	1:N:399:TYR:OH	2.13	0.63
1:O:550:ARG:NH1	1:h:441:ASP:OD2	2.28	0.63
1:P:262:ASN:HD22	1:P:273:ALA:HA	1.63	0.63
1:V:352:LEU:HD21	1:V:400:PHE:CZ	2.33	0.63
1:Y:352:LEU:HD21	1:Y:400:PHE:CZ	2.33	0.63
1:1:579:GLN:NE2	1:1:593:THR:OG1	2.29	0.63
1:4:309:ARG:NH2	1:4:686:GLU:OE1	2.27	0.63
1:6:352:LEU:HD21	1:6:400:PHE:CZ	2.34	0.63
1:a:262:ASN:ND2	1:a:273:ALA:HA	2.13	0.63
1:b:262:ASN:HD22	1:b:273:ALA:HA	1.63	0.63
1:b:700:GLN:HG3	1:b:701:TYR:H	1.62	0.63
1:g:279:THR:OG1	1:g:377:TYR:O	2.16	0.63
1:i:279:THR:OG1	1:i:377:TYR:O	2.16	0.63
1:q:262:ASN:ND2	1:q:273:ALA:HA	2.13	0.63
1:s:309:ARG:NH2	1:s:686:GLU:OE1	2.27	0.63
1:x:553:VAL:HG13	1:x:557:LYS:HE2	1.79	0.63
1:8:262:ASN:HD22	1:8:273:ALA:HA	1.63	0.63
1:B:262:ASN:HD22	1:B:273:ALA:HA	1.63	0.63
1:I:251:THR:CG2	1:I:255:HIS:CE1	2.82	0.63
1:P:700:GLN:HG3	1:P:701:TYR:H	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:462:LYS:NZ	1:S:554:ASP:OD1	2.25	0.63
1:W:700:GLN:HG3	1:W:701:TYR:H	1.62	0.63
1:2:262:ASN:ND2	1:2:273:ALA:HA	2.13	0.63
1:3:352:LEU:HD21	1:3:400:PHE:CZ	2.34	0.63
1:d:352:LEU:HD11	1:d:400:PHE:CE2	2.32	0.63
1:e:251:THR:CG2	1:e:255:HIS:CE1	2.82	0.63
1:e:352:LEU:HD11	1:e:400:PHE:CE2	2.32	0.63
1:s:251:THR:CG2	1:s:255:HIS:CE1	2.82	0.63
1:w:352:LEU:HD11	1:w:400:PHE:CE2	2.33	0.63
1:A:251:THR:CG2	1:A:255:HIS:CE1	2.82	0.62
1:B:695:TRP:HZ2	1:I:721:TYR:HH	1.45	0.62
1:D:251:THR:CG2	1:D:255:HIS:CE1	2.82	0.62
1:E:251:THR:CG2	1:E:255:HIS:CE1	2.82	0.62
1:E:352:LEU:HD11	1:E:400:PHE:CE2	2.33	0.62
1:F:352:LEU:HD11	1:F:400:PHE:CE2	2.32	0.62
1:K:355:VAL:H	1:K:646:GLN:NE2	1.97	0.62
1:L:352:LEU:HD21	1:L:400:PHE:CZ	2.33	0.62
1:P:251:THR:CG2	1:P:255:HIS:CE1	2.82	0.62
1:V:309:ARG:NH2	1:V:686:GLU:OE1	2.27	0.62
1:X:279:THR:OG1	1:X:377:TYR:O	2.16	0.62
1:a:559:MET:CG	1:a:726:PRO:CD	2.64	0.62
1:c:700:GLN:HG3	1:c:701:TYR:H	1.62	0.62
1:j:579:GLN:NE2	1:j:593:THR:OG1	2.29	0.62
1:k:352:LEU:HD21	1:k:400:PHE:CZ	2.33	0.62
1:q:554:ASP:OD1	1:s:462:LYS:NZ	2.26	0.62
1:u:262:ASN:ND2	1:u:273:ALA:HA	2.13	0.62
1:u:352:LEU:HD11	1:u:400:PHE:CE2	2.32	0.62
1:v:559:MET:CG	1:v:726:PRO:CD	2.64	0.62
1:w:550:ARG:NH1	1:x:441:ASP:OD2	2.28	0.62
1:y:355:VAL:H	1:y:646:GLN:NE2	1.98	0.62
1:7:251:THR:CG2	1:7:255:HIS:CE1	2.82	0.62
1:7:262:ASN:HD22	1:7:273:ALA:HA	1.63	0.62
1:8:251:THR:CG2	1:8:255:HIS:CE1	2.82	0.62
1:A:262:ASN:ND2	1:A:273:ALA:HA	2.13	0.62
1:C:554:ASP:OD1	1:M:462:LYS:NZ	2.26	0.62
1:D:262:ASN:ND2	1:D:273:ALA:HA	2.13	0.62
1:J:251:THR:CG2	1:J:255:HIS:CE1	2.82	0.62
1:O:251:THR:CG2	1:O:255:HIS:CE1	2.82	0.62
1:U:262:ASN:ND2	1:U:273:ALA:HA	2.13	0.62
1:V:355:VAL:H	1:V:646:GLN:NE2	1.98	0.62
1:V:554:ASP:OD1	1:X:462:LYS:NZ	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:355:VAL:H	1:W:646:GLN:NE2	1.98	0.62
1:Z:251:THR:CG2	1:Z:255:HIS:CE1	2.82	0.62
1:5:251:THR:CG2	1:5:255:HIS:CE1	2.82	0.62
1:6:399:TYR:OH	1:t:294:SER:OG	2.13	0.62
1:a:251:THR:CG2	1:a:255:HIS:CE1	2.82	0.62
1:f:355:VAL:H	1:f:646:GLN:NE2	1.98	0.62
1:i:352:LEU:HD11	1:i:400:PHE:CE2	2.33	0.62
1:i:355:VAL:H	1:i:646:GLN:NE2	1.98	0.62
1:l:355:VAL:H	1:l:646:GLN:NE2	1.98	0.62
1:n:251:THR:CG2	1:n:255:HIS:CE1	2.82	0.62
1:q:251:THR:CG2	1:q:255:HIS:CE1	2.82	0.62
1:r:441:ASP:OD2	1:s:550:ARG:NH1	2.28	0.62
1:u:279:THR:OG1	1:u:377:TYR:O	2.16	0.62
1:v:262:ASN:ND2	1:v:273:ALA:HA	2.13	0.62
1:w:355:VAL:H	1:w:646:GLN:NE2	1.98	0.62
1:A:721:TYR:HH	1:F:695:TRP:HZ2	1.47	0.62
1:B:352:LEU:HD21	1:B:400:PHE:CZ	2.33	0.62
1:C:262:ASN:ND2	1:C:273:ALA:HA	2.13	0.62
1:C:279:THR:OG1	1:C:377:TYR:O	2.16	0.62
1:C:352:LEU:HD11	1:C:400:PHE:CE2	2.32	0.62
1:D:721:TYR:HH	1:M:695:TRP:HZ2	1.47	0.62
1:E:441:ASP:OD2	1:Q:550:ARG:NH1	2.28	0.62
1:E:559:MET:CG	1:E:726:PRO:CD	2.64	0.62
1:G:355:VAL:H	1:G:646:GLN:NE2	1.98	0.62
1:H:352:LEU:HD21	1:H:400:PHE:CZ	2.34	0.62
1:I:352:LEU:HD11	1:I:400:PHE:CE2	2.32	0.62
1:K:352:LEU:HD11	1:K:400:PHE:CE2	2.32	0.62
1:O:352:LEU:HD21	1:O:400:PHE:CZ	2.33	0.62
1:R:355:VAL:H	1:R:646:GLN:NE2	1.98	0.62
1:U:355:VAL:H	1:U:646:GLN:NE2	1.97	0.62
1:W:721:TYR:HH	1:X:695:TRP:HZ2	1.47	0.62
1:3:251:THR:CG2	1:3:255:HIS:CE1	2.82	0.62
1:4:262:ASN:ND2	1:4:273:ALA:HA	2.13	0.62
1:4:355:VAL:H	1:4:646:GLN:NE2	1.97	0.62
1:4:695:TRP:HZ2	1:h:721:TYR:HH	1.46	0.62
1:5:355:VAL:H	1:5:646:GLN:NE2	1.98	0.62
1:b:251:THR:CG2	1:b:255:HIS:CE1	2.82	0.62
1:b:279:THR:OG1	1:b:377:TYR:O	2.16	0.62
1:b:352:LEU:HD21	1:b:400:PHE:CZ	2.33	0.62
1:c:550:ARG:NH1	1:e:441:ASP:OD2	2.28	0.62
1:h:355:VAL:H	1:h:646:GLN:NE2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:251:THR:CG2	1:j:255:HIS:CE1	2.82	0.62
1:o:352:LEU:HD21	1:o:400:PHE:CZ	2.33	0.62
1:p:352:LEU:HD21	1:p:400:PHE:CZ	2.33	0.62
1:r:355:VAL:H	1:r:646:GLN:NE2	1.98	0.62
1:s:352:LEU:HD11	1:s:400:PHE:CE2	2.32	0.62
1:B:579:GLN:NE2	1:B:593:THR:OG1	2.29	0.62
1:D:579:GLN:NE2	1:D:593:THR:OG1	2.29	0.62
1:E:462:LYS:NZ	1:Q:554:ASP:OD1	2.27	0.62
1:H:251:THR:CG2	1:H:255:HIS:CE1	2.82	0.62
1:M:251:THR:CG2	1:M:255:HIS:CE1	2.82	0.62
1:M:436:MET:CE	1:M:471:MET:HG2	2.27	0.62
1:M:579:GLN:NE2	1:M:593:THR:OG1	2.29	0.62
1:S:355:VAL:H	1:S:646:GLN:NE2	1.98	0.62
1:T:355:VAL:H	1:T:646:GLN:NE2	1.98	0.62
1:T:554:ASP:OD1	1:f:462:LYS:NZ	2.25	0.62
1:Y:251:THR:CG2	1:Y:255:HIS:CE1	2.82	0.62
1:Z:579:GLN:NE2	1:Z:593:THR:OG1	2.29	0.62
1:2:251:THR:CG2	1:2:255:HIS:CE1	2.82	0.62
1:2:355:VAL:H	1:2:646:GLN:NE2	1.98	0.62
1:3:441:ASP:OD2	1:i:550:ARG:NH1	2.28	0.62
1:4:559:MET:HG2	1:4:726:PRO:CD	2.30	0.62
1:a:579:GLN:NE2	1:a:593:THR:OG1	2.29	0.62
1:h:309:ARG:NH2	1:h:686:GLU:OE1	2.27	0.62
1:k:579:GLN:NE2	1:k:593:THR:OG1	2.29	0.62
1:m:251:THR:CG2	1:m:255:HIS:CE1	2.82	0.62
1:p:579:GLN:NE2	1:p:593:THR:OG1	2.29	0.62
1:t:436:MET:CE	1:t:471:MET:HG2	2.27	0.62
1:t:462:LYS:NZ	1:u:554:ASP:OD1	2.26	0.62
1:t:579:GLN:NE2	1:t:593:THR:OG1	2.29	0.62
1:u:355:VAL:H	1:u:646:GLN:NE2	1.98	0.62
1:v:251:THR:CG2	1:v:255:HIS:CE1	2.82	0.62
1:v:355:VAL:H	1:v:646:GLN:NE2	1.98	0.62
1:v:695:TRP:HZ2	1:x:721:TYR:HH	1.47	0.62
1:x:559:MET:CG	1:x:726:PRO:CD	2.64	0.62
1:y:262:ASN:HD22	1:y:273:ALA:HA	1.63	0.62
1:z:279:THR:OG1	1:z:377:TYR:O	2.16	0.62
1:C:355:VAL:H	1:C:646:GLN:NE2	1.98	0.62
1:K:262:ASN:HD22	1:K:273:ALA:HA	1.63	0.62
1:N:579:GLN:NE2	1:N:593:THR:OG1	2.29	0.62
1:O:355:VAL:H	1:O:646:GLN:NE2	1.98	0.62
1:P:352:LEU:HD21	1:P:400:PHE:CZ	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:700:GLN:HG3	1:Q:701:TYR:H	1.62	0.62
1:X:262:ASN:HD22	1:X:273:ALA:HA	1.63	0.62
1:1:279:THR:OG1	1:1:377:TYR:O	2.16	0.62
1:2:262:ASN:HD22	1:2:273:ALA:HA	1.63	0.62
1:5:352:LEU:HD21	1:5:400:PHE:CZ	2.33	0.62
1:a:721:TYR:HH	1:t:695:TRP:HZ2	1.48	0.62
1:f:579:GLN:NE2	1:f:593:THR:OG1	2.29	0.62
1:g:262:ASN:HD22	1:g:273:ALA:HA	1.63	0.62
1:g:462:LYS:NZ	1:h:554:ASP:OD1	2.26	0.62
1:g:695:TRP:HZ2	1:l:721:TYR:HH	1.47	0.62
1:j:352:LEU:HD11	1:j:400:PHE:CE2	2.32	0.62
1:k:251:THR:CG2	1:k:255:HIS:CE1	2.82	0.62
1:k:554:ASP:OD1	1:m:462:LYS:NZ	2.25	0.62
1:u:262:ASN:HD22	1:u:273:ALA:HA	1.63	0.62
1:v:262:ASN:HD22	1:v:273:ALA:HA	1.63	0.62
1:x:251:THR:CG2	1:x:255:HIS:CE1	2.82	0.62
1:y:352:LEU:HD11	1:y:400:PHE:CE2	2.32	0.62
1:z:441:ASP:OD2	1:7:550:ARG:NH1	2.29	0.62
1:G:441:ASP:OD2	1:I:550:ARG:NH1	2.28	0.62
1:G:462:LYS:NZ	1:I:554:ASP:OD1	2.25	0.62
1:K:251:THR:CG2	1:K:255:HIS:CE1	2.82	0.62
1:L:251:THR:CG2	1:L:255:HIS:CE1	2.82	0.62
1:O:462:LYS:NZ	1:g:554:ASP:OD1	2.26	0.62
1:4:251:THR:CG2	1:4:255:HIS:CE1	2.82	0.62
1:b:559:MET:HG2	1:b:726:PRO:CD	2.30	0.62
1:h:262:ASN:HD22	1:h:273:ALA:HA	1.63	0.62
1:n:355:VAL:H	1:n:646:GLN:NE2	1.97	0.62
1:o:251:THR:CG2	1:o:255:HIS:CE1	2.82	0.62
1:q:550:ARG:NH1	1:s:441:ASP:OD2	2.28	0.62
1:t:251:THR:CG2	1:t:255:HIS:CE1	2.82	0.62
1:u:352:LEU:HD21	1:u:400:PHE:CZ	2.34	0.62
1:v:352:LEU:HD11	1:v:400:PHE:CE2	2.32	0.62
1:z:251:THR:CG2	1:z:255:HIS:CE1	2.82	0.62
1:C:352:LEU:HD21	1:C:400:PHE:CZ	2.33	0.62
1:F:352:LEU:HD21	1:F:400:PHE:CZ	2.34	0.62
1:H:579:GLN:NE2	1:H:593:THR:OG1	2.29	0.62
1:P:559:MET:HG2	1:P:726:PRO:CD	2.30	0.62
1:R:579:GLN:NE2	1:R:593:THR:OG1	2.29	0.62
1:T:462:LYS:NZ	1:4:554:ASP:OD1	2.26	0.62
1:U:251:THR:CG2	1:U:255:HIS:CE1	2.82	0.62
1:U:559:MET:HG2	1:U:726:PRO:CD	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:579:GLN:NE2	1:W:593:THR:OG1	2.29	0.62
1:Z:352:LEU:HD11	1:Z:400:PHE:CE2	2.32	0.62
1:1:251:THR:CG2	1:1:255:HIS:CE1	2.82	0.62
1:6:462:LYS:NZ	1:b:554:ASP:OD1	2.26	0.62
1:6:579:GLN:NE2	1:6:593:THR:OG1	2.29	0.62
1:d:693:LYS:HE2	1:e:400:PHE:CD1	2.35	0.62
1:i:251:THR:CG2	1:i:255:HIS:CE1	2.82	0.62
1:l:579:GLN:NE2	1:l:593:THR:OG1	2.29	0.62
1:r:251:THR:CG2	1:r:255:HIS:CE1	2.82	0.62
1:r:462:LYS:NZ	1:s:554:ASP:OD1	2.26	0.62
1:t:355:VAL:H	1:t:646:GLN:NE2	1.98	0.62
1:y:251:THR:CG2	1:y:255:HIS:CE1	2.82	0.62
1:A:355:VAL:H	1:A:646:GLN:NE2	1.98	0.62
1:C:262:ASN:HD22	1:C:273:ALA:HA	1.63	0.62
1:G:251:THR:CG2	1:G:255:HIS:CE1	2.82	0.62
1:H:554:ASP:OD1	1:Y:462:LYS:NZ	2.25	0.62
1:J:355:VAL:H	1:J:646:GLN:NE2	1.98	0.62
1:Q:243:SER:HB3	1:Q:245:ARG:NH1	2.09	0.62
1:S:279:THR:OG1	1:S:377:TYR:O	2.16	0.62
1:T:251:THR:CG2	1:T:255:HIS:CE1	2.82	0.62
1:2:352:LEU:HD11	1:2:400:PHE:CE2	2.33	0.62
1:3:579:GLN:NE2	1:3:593:THR:OG1	2.29	0.62
1:6:355:VAL:H	1:6:646:GLN:NE2	1.98	0.62
1:c:243:SER:HB3	1:c:245:ARG:NH1	2.09	0.62
1:d:352:LEU:HD21	1:d:400:PHE:CZ	2.33	0.62
1:j:355:VAL:H	1:j:646:GLN:NE2	1.98	0.62
1:q:355:VAL:H	1:q:646:GLN:NE2	1.98	0.62
1:w:251:THR:CG2	1:w:255:HIS:CE1	2.82	0.62
1:z:355:VAL:H	1:z:646:GLN:NE2	1.98	0.62
1:B:251:THR:CG2	1:B:255:HIS:CE1	2.82	0.62
1:D:309:ARG:NH2	1:D:686:GLU:OE1	2.27	0.62
1:M:355:VAL:H	1:M:646:GLN:NE2	1.98	0.62
1:N:462:LYS:NZ	1:P:554:ASP:OD1	2.26	0.62
1:S:251:THR:CG2	1:S:255:HIS:CE1	2.82	0.62
1:T:436:MET:CE	1:T:471:MET:SD	2.88	0.62
1:V:262:ASN:HD22	1:V:273:ALA:HA	1.63	0.62
1:W:243:SER:HB3	1:W:245:ARG:NH1	2.09	0.62
1:Y:352:LEU:HD11	1:Y:400:PHE:CE2	2.32	0.62
1:Z:355:VAL:H	1:Z:646:GLN:NE2	1.98	0.62
1:Z:436:MET:CE	1:Z:471:MET:SD	2.88	0.62
1:1:355:VAL:H	1:1:646:GLN:NE2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:436:MET:CE	1:2:471:MET:SD	2.88	0.62
1:g:721:TYR:HH	1:l:695:TRP:HZ2	1.48	0.62
1:j:436:MET:CE	1:j:471:MET:SD	2.88	0.62
1:k:559:MET:HG2	1:k:726:PRO:CD	2.30	0.62
1:r:579:GLN:NE2	1:r:593:THR:OG1	2.29	0.62
1:v:436:MET:CE	1:v:471:MET:SD	2.88	0.62
1:x:579:GLN:NE2	1:x:593:THR:OG1	2.29	0.62
1:B:309:ARG:NH2	1:B:686:GLU:OE1	2.27	0.62
1:B:436:MET:CE	1:B:471:MET:SD	2.88	0.62
1:D:436:MET:CE	1:D:471:MET:SD	2.88	0.62
1:G:436:MET:CE	1:G:471:MET:SD	2.88	0.62
1:H:355:VAL:H	1:H:646:GLN:NE2	1.98	0.62
1:H:436:MET:CE	1:H:471:MET:HG2	2.27	0.62
1:H:559:MET:HG2	1:H:726:PRO:CD	2.30	0.62
1:N:355:VAL:H	1:N:646:GLN:NE2	1.98	0.62
1:N:436:MET:CE	1:N:471:MET:SD	2.88	0.62
1:Q:436:MET:CE	1:Q:471:MET:SD	2.88	0.62
1:S:436:MET:CE	1:S:471:MET:SD	2.88	0.62
1:T:279:THR:OG1	1:T:377:TYR:O	2.16	0.62
1:W:251:THR:CG2	1:W:255:HIS:CE1	2.82	0.62
1:1:352:LEU:HD11	1:1:400:PHE:CE2	2.32	0.62
1:3:262:ASN:HD22	1:3:273:ALA:HA	1.63	0.62
1:6:436:MET:CE	1:6:471:MET:SD	2.88	0.62
1:a:355:VAL:H	1:a:646:GLN:NE2	1.98	0.62
1:a:436:MET:CE	1:a:471:MET:SD	2.88	0.62
1:c:436:MET:CE	1:c:471:MET:SD	2.88	0.62
1:e:355:VAL:H	1:e:646:GLN:NE2	1.98	0.62
1:e:559:MET:CG	1:e:726:PRO:CD	2.64	0.62
1:i:559:MET:HG2	1:i:726:PRO:CD	2.30	0.62
1:j:279:THR:OG1	1:j:377:TYR:O	2.16	0.62
1:k:355:VAL:H	1:k:646:GLN:NE2	1.98	0.62
1:k:436:MET:CE	1:k:471:MET:HG2	2.27	0.62
1:l:251:THR:CG2	1:l:255:HIS:CE1	2.82	0.62
1:n:436:MET:CE	1:n:471:MET:SD	2.88	0.62
1:p:251:THR:CG2	1:p:255:HIS:CE1	2.82	0.62
1:r:436:MET:CE	1:r:471:MET:SD	2.88	0.62
1:u:251:THR:CG2	1:u:255:HIS:CE1	2.82	0.62
1:w:436:MET:CE	1:w:471:MET:SD	2.88	0.62
1:x:262:ASN:HD22	1:x:273:ALA:HA	1.63	0.62
1:y:436:MET:CE	1:y:471:MET:SD	2.88	0.62
1:C:251:THR:CG2	1:C:255:HIS:CE1	2.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:355:VAL:H	1:E:646:GLN:NE2	1.98	0.61
1:J:436:MET:CE	1:J:471:MET:SD	2.88	0.61
1:K:436:MET:CE	1:K:471:MET:SD	2.88	0.61
1:Q:251:THR:CG2	1:Q:255:HIS:CE1	2.82	0.61
1:Q:355:VAL:H	1:Q:646:GLN:NE2	1.98	0.61
1:S:462:LYS:NZ	1:U:554:ASP:OD1	2.26	0.61
1:U:352:LEU:HD11	1:U:400:PHE:CE2	2.32	0.61
1:U:579:GLN:NE2	1:U:593:THR:OG1	2.29	0.61
1:Y:436:MET:CE	1:Y:471:MET:SD	2.88	0.61
1:4:352:LEU:HD11	1:4:400:PHE:CE2	2.32	0.61
1:c:355:VAL:H	1:c:646:GLN:NE2	1.98	0.61
1:i:436:MET:CE	1:i:471:MET:SD	2.88	0.61
1:k:243:SER:HB3	1:k:245:ARG:NH1	2.09	0.61
1:l:243:SER:HB3	1:l:245:ARG:NH1	2.09	0.61
1:l:279:THR:OG1	1:l:377:TYR:O	2.16	0.61
1:m:352:LEU:HD11	1:m:400:PHE:CE2	2.32	0.61
1:m:436:MET:CE	1:m:471:MET:SD	2.88	0.61
1:o:721:TYR:HH	1:u:695:TRP:HZ2	1.48	0.61
1:p:243:SER:HB3	1:p:245:ARG:NH1	2.09	0.61
1:p:436:MET:CE	1:p:471:MET:SD	2.88	0.61
1:w:559:MET:HG2	1:w:726:PRO:CD	2.30	0.61
1:z:243:SER:HB3	1:z:245:ARG:NH1	2.09	0.61
1:7:436:MET:CE	1:7:471:MET:SD	2.88	0.61
1:8:436:MET:CE	1:8:471:MET:SD	2.88	0.61
1:C:695:TRP:HZ2	1:L:721:TYR:HH	1.48	0.61
1:D:355:VAL:H	1:D:646:GLN:NE2	1.98	0.61
1:E:309:ARG:NH2	1:E:686:GLU:OE1	2.27	0.61
1:G:579:GLN:NE2	1:G:593:THR:OG1	2.29	0.61
1:H:243:SER:HB3	1:H:245:ARG:NH1	2.09	0.61
1:M:247:TRP:CD1	1:M:679:VAL:HG13	2.36	0.61
1:M:279:THR:OG1	1:M:377:TYR:O	2.16	0.61
1:M:352:LEU:HD11	1:M:400:PHE:CE2	2.33	0.61
1:R:309:ARG:NH2	1:R:686:GLU:OE1	2.27	0.61
1:V:279:THR:OG1	1:V:377:TYR:O	2.16	0.61
1:W:279:THR:OG1	1:W:377:TYR:O	2.16	0.61
1:W:559:MET:CG	1:W:726:PRO:CD	2.64	0.61
1:W:559:MET:HG2	1:W:726:PRO:CD	2.30	0.61
1:X:247:TRP:CD1	1:X:679:VAL:HG13	2.36	0.61
1:2:579:GLN:NE2	1:2:593:THR:OG1	2.29	0.61
1:4:579:GLN:NE2	1:4:593:THR:OG1	2.29	0.61
1:a:309:ARG:NH2	1:a:686:GLU:OE1	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:352:LEU:HD11	1:a:400:PHE:CE2	2.33	0.61
1:c:251:THR:CG2	1:c:255:HIS:CE1	2.82	0.61
1:h:279:THR:OG1	1:h:377:TYR:O	2.16	0.61
1:l:436:MET:CE	1:l:471:MET:SD	2.88	0.61
1:p:309:ARG:NH2	1:p:686:GLU:OE1	2.27	0.61
1:v:579:GLN:NE2	1:v:593:THR:OG1	2.29	0.61
1:7:247:TRP:CD1	1:7:679:VAL:HG13	2.36	0.61
1:8:247:TRP:CD1	1:8:679:VAL:HG13	2.36	0.61
1:B:243:SER:HB3	1:B:245:ARG:NH1	2.09	0.61
1:C:436:MET:CE	1:C:471:MET:SD	2.88	0.61
1:D:559:MET:HG2	1:D:726:PRO:CD	2.30	0.61
1:F:251:THR:CG2	1:F:255:HIS:CE1	2.82	0.61
1:I:355:VAL:H	1:I:646:GLN:NE2	1.98	0.61
1:N:251:THR:CG2	1:N:255:HIS:CE1	2.82	0.61
1:R:251:THR:CG2	1:R:255:HIS:CE1	2.82	0.61
1:R:436:MET:CE	1:R:471:MET:SD	2.88	0.61
1:V:251:THR:CG2	1:V:255:HIS:CE1	2.82	0.61
1:W:436:MET:CE	1:W:471:MET:SD	2.88	0.61
1:Z:279:THR:OG1	1:Z:377:TYR:O	2.16	0.61
1:Z:559:MET:HG2	1:Z:726:PRO:CD	2.30	0.61
1:2:695:TRP:HZ2	1:3:721:TYR:HH	1.48	0.61
1:3:436:MET:CE	1:3:471:MET:SD	2.88	0.61
1:d:251:THR:CG2	1:d:255:HIS:CE1	2.82	0.61
1:d:355:VAL:H	1:d:646:GLN:NE2	1.97	0.61
1:f:436:MET:CE	1:f:471:MET:SD	2.88	0.61
1:g:247:TRP:CD1	1:g:679:VAL:HG13	2.36	0.61
1:j:559:MET:HG2	1:j:726:PRO:CD	2.30	0.61
1:j:695:TRP:HZ2	1:m:721:TYR:HH	1.48	0.61
1:l:559:MET:CG	1:l:726:PRO:CD	2.64	0.61
1:t:247:TRP:CD1	1:t:679:VAL:HG13	2.36	0.61
1:u:436:MET:CE	1:u:471:MET:SD	2.88	0.61
1:x:279:THR:OG1	1:x:377:TYR:O	2.16	0.61
1:x:436:MET:CE	1:x:471:MET:SD	2.88	0.61
1:y:247:TRP:CD1	1:y:679:VAL:HG13	2.36	0.61
1:y:554:ASP:OD1	1:7:462:LYS:NZ	2.26	0.61
1:7:355:VAL:H	1:7:646:GLN:NE2	1.98	0.61
1:8:355:VAL:H	1:8:646:GLN:NE2	1.98	0.61
1:A:288:ARG:NH1	1:A:363:CYS:SG	2.74	0.61
1:A:436:MET:CE	1:A:471:MET:SD	2.88	0.61
1:B:247:TRP:CD1	1:B:679:VAL:HG13	2.36	0.61
1:C:550:ARG:NH1	1:M:441:ASP:OD2	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:352:LEU:HD11	1:D:400:PHE:CE2	2.33	0.61
1:H:462:LYS:NZ	1:W:554:ASP:OD1	2.25	0.61
1:J:559:MET:HG2	1:J:726:PRO:CD	2.30	0.61
1:K:247:TRP:CD1	1:K:679:VAL:HG13	2.36	0.61
1:M:436:MET:CE	1:M:471:MET:SD	2.88	0.61
1:P:247:TRP:CD1	1:P:679:VAL:HG13	2.36	0.61
1:U:247:TRP:CD1	1:U:679:VAL:HG13	2.36	0.61
1:U:436:MET:CE	1:U:471:MET:SD	2.88	0.61
1:V:288:ARG:NH1	1:V:363:CYS:SG	2.74	0.61
1:V:579:GLN:NE2	1:V:593:THR:OG1	2.29	0.61
1:Y:247:TRP:CD1	1:Y:679:VAL:HG13	2.36	0.61
1:2:309:ARG:NH2	1:2:686:GLU:OE1	2.27	0.61
1:3:279:THR:OG1	1:3:377:TYR:O	2.16	0.61
1:4:436:MET:CE	1:4:471:MET:SD	2.88	0.61
1:6:288:ARG:NH1	1:6:363:CYS:SG	2.74	0.61
1:b:247:TRP:CD1	1:b:679:VAL:HG13	2.36	0.61
1:d:579:GLN:NE2	1:d:593:THR:OG1	2.29	0.61
1:f:251:THR:CG2	1:f:255:HIS:CE1	2.82	0.61
1:f:309:ARG:NH2	1:f:686:GLU:OE1	2.27	0.61
1:h:288:ARG:NH1	1:h:363:CYS:SG	2.74	0.61
1:i:288:ARG:NH1	1:i:363:CYS:SG	2.74	0.61
1:k:462:LYS:NZ	1:l:554:ASP:OD1	2.25	0.61
1:l:559:MET:HG2	1:l:726:PRO:CD	2.30	0.61
1:m:247:TRP:CD1	1:m:679:VAL:HG13	2.36	0.61
1:p:247:TRP:CD1	1:p:679:VAL:HG13	2.36	0.61
1:q:288:ARG:NH1	1:q:363:CYS:SG	2.74	0.61
1:t:279:THR:OG1	1:t:377:TYR:O	2.16	0.61
1:t:352:LEU:HD11	1:t:400:PHE:CE2	2.33	0.61
1:t:436:MET:CE	1:t:471:MET:SD	2.88	0.61
1:w:288:ARG:NH1	1:w:363:CYS:SG	2.74	0.61
1:F:355:VAL:H	1:F:646:GLN:NE2	1.98	0.61
1:I:436:MET:CE	1:I:471:MET:SD	2.88	0.61
1:M:288:ARG:NH1	1:M:363:CYS:SG	2.74	0.61
1:N:288:ARG:NH1	1:N:363:CYS:SG	2.74	0.61
1:P:355:VAL:H	1:P:646:GLN:NE2	1.98	0.61
1:X:251:THR:CG2	1:X:255:HIS:CE1	2.82	0.61
1:Y:355:VAL:H	1:Y:646:GLN:NE2	1.98	0.61
1:4:247:TRP:CD1	1:4:679:VAL:HG13	2.36	0.61
1:5:436:MET:CE	1:5:471:MET:SD	2.88	0.61
1:6:251:THR:CG2	1:6:255:HIS:CE1	2.82	0.61
1:6:563:GLU:OE2	1:6:613:TYR:OH	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:559:MET:HG2	1:a:726:PRO:CD	2.30	0.61
1:b:436:MET:CE	1:b:471:MET:SD	2.88	0.61
1:h:251:THR:CG2	1:h:255:HIS:CE1	2.82	0.61
1:k:721:TYR:HH	1:r:695:TRP:HZ2	1.48	0.61
1:q:436:MET:CE	1:q:471:MET:SD	2.88	0.61
1:s:355:VAL:H	1:s:646:GLN:NE2	1.98	0.61
1:s:436:MET:CE	1:s:471:MET:SD	2.88	0.61
1:t:441:ASP:OD2	1:u:550:ARG:NH1	2.29	0.61
1:A:462:LYS:NZ	1:G:554:ASP:OD1	2.25	0.61
1:E:288:ARG:NH1	1:E:363:CYS:SG	2.74	0.61
1:F:288:ARG:NH1	1:F:363:CYS:SG	2.74	0.61
1:F:579:GLN:NE2	1:F:593:THR:OG1	2.29	0.61
1:I:288:ARG:NH1	1:I:363:CYS:SG	2.74	0.61
1:O:288:ARG:NH1	1:O:363:CYS:SG	2.74	0.61
1:O:436:MET:CE	1:O:471:MET:SD	2.88	0.61
1:P:436:MET:CE	1:P:471:MET:SD	2.88	0.61
1:U:288:ARG:NH1	1:U:363:CYS:SG	2.74	0.61
1:1:243:SER:HB3	1:1:245:ARG:NH1	2.09	0.61
1:4:288:ARG:NH1	1:4:363:CYS:SG	2.74	0.61
1:5:288:ARG:NH1	1:5:363:CYS:SG	2.74	0.61
1:b:288:ARG:NH1	1:b:363:CYS:SG	2.74	0.61
1:b:355:VAL:H	1:b:646:GLN:NE2	1.98	0.61
1:d:247:TRP:CD1	1:d:679:VAL:HG13	2.36	0.61
1:d:288:ARG:NH1	1:d:363:CYS:SG	2.74	0.61
1:d:705:TYR:CE1	1:r:391:ARG:NH1	2.68	0.61
1:d:707:LYS:CE	1:r:384:ASP:OD2	2.49	0.61
1:e:309:ARG:NH2	1:e:686:GLU:OE1	2.27	0.61
1:f:247:TRP:CD1	1:f:679:VAL:HG13	2.36	0.61
1:f:352:LEU:HD11	1:f:400:PHE:CE2	2.32	0.61
1:g:251:THR:CG2	1:g:255:HIS:CE1	2.82	0.61
1:h:247:TRP:CD1	1:h:679:VAL:HG13	2.36	0.61
1:h:579:GLN:NE2	1:h:593:THR:OG1	2.29	0.61
1:i:247:TRP:CD1	1:i:679:VAL:HG13	2.35	0.61
1:m:355:VAL:H	1:m:646:GLN:NE2	1.98	0.61
1:n:559:MET:HG2	1:n:726:PRO:CD	2.30	0.61
1:o:579:GLN:NE2	1:o:593:THR:OG1	2.29	0.61
1:q:462:LYS:NZ	1:r:554:ASP:OD1	2.25	0.61
1:t:288:ARG:NH1	1:t:363:CYS:SG	2.74	0.61
1:v:309:ARG:NH2	1:v:686:GLU:OE1	2.27	0.61
1:B:355:VAL:H	1:B:646:GLN:NE2	1.97	0.61
1:C:247:TRP:CD1	1:C:679:VAL:HG13	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:247:TRP:CD1	1:F:679:VAL:HG13	2.36	0.61
1:K:288:ARG:NH1	1:K:363:CYS:SG	2.74	0.61
1:K:554:ASP:OD1	1:8:462:LYS:NZ	2.26	0.61
1:L:436:MET:CE	1:L:471:MET:SD	2.88	0.61
1:R:247:TRP:CD1	1:R:679:VAL:HG13	2.36	0.61
1:R:352:LEU:HD11	1:R:400:PHE:CE2	2.33	0.61
1:V:247:TRP:CD1	1:V:679:VAL:HG13	2.36	0.61
1:3:247:TRP:CD1	1:3:679:VAL:HG13	2.35	0.61
1:3:355:VAL:H	1:3:646:GLN:NE2	1.98	0.61
1:5:243:SER:HB3	1:5:245:ARG:NH1	2.09	0.61
1:d:436:MET:CE	1:d:471:MET:SD	2.88	0.61
1:e:288:ARG:NH1	1:e:363:CYS:SG	2.74	0.61
1:f:559:MET:HG2	1:f:726:PRO:CD	2.30	0.61
1:n:288:ARG:NH1	1:n:363:CYS:SG	2.74	0.61
1:p:355:VAL:H	1:p:646:GLN:NE2	1.98	0.61
1:q:341:THR:HG1	1:q:652:THR:HG1	1.48	0.61
1:s:288:ARG:NH1	1:s:363:CYS:SG	2.74	0.61
1:u:247:TRP:CD1	1:u:679:VAL:HG13	2.36	0.61
1:w:247:TRP:CD1	1:w:679:VAL:HG13	2.35	0.61
1:x:355:VAL:H	1:x:646:GLN:NE2	1.98	0.61
1:y:288:ARG:NH1	1:y:363:CYS:SG	2.74	0.61
1:z:352:LEU:HD11	1:z:400:PHE:CE2	2.33	0.61
1:7:288:ARG:NH1	1:7:363:CYS:SG	2.74	0.61
1:8:288:ARG:NH1	1:8:363:CYS:SG	2.74	0.61
1:F:436:MET:CE	1:F:471:MET:SD	2.88	0.61
1:J:288:ARG:NH1	1:J:363:CYS:SG	2.74	0.61
1:L:355:VAL:H	1:L:646:GLN:NE2	1.98	0.61
1:N:279:THR:OG1	1:N:377:TYR:O	2.16	0.61
1:P:288:ARG:NH1	1:P:363:CYS:SG	2.74	0.61
1:R:559:MET:HG2	1:R:726:PRO:CD	2.30	0.61
1:U:695:TRP:HZ2	1:V:721:TYR:HH	1.47	0.61
1:V:436:MET:CE	1:V:471:MET:SD	2.88	0.61
1:Z:288:ARG:NH1	1:Z:363:CYS:SG	2.74	0.61
1:g:355:VAL:H	1:g:646:GLN:NE2	1.97	0.61
1:k:352:LEU:HD11	1:k:400:PHE:CE2	2.32	0.61
1:l:247:TRP:CD1	1:l:679:VAL:HG13	2.36	0.61
1:o:436:MET:CE	1:o:471:MET:SD	2.88	0.61
1:x:247:TRP:CD1	1:x:679:VAL:HG13	2.36	0.61
1:z:436:MET:CE	1:z:471:MET:SD	2.88	0.61
1:B:288:ARG:NH1	1:B:363:CYS:SG	2.74	0.61
1:G:243:SER:HB3	1:G:245:ARG:NH1	2.09	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:352:LEU:HD11	1:H:400:PHE:CE2	2.32	0.61
1:J:247:TRP:CD1	1:J:679:VAL:HG13	2.36	0.61
1:W:247:TRP:CD1	1:W:679:VAL:HG13	2.36	0.61
1:1:436:MET:CE	1:1:471:MET:SD	2.88	0.61
1:2:247:TRP:CD1	1:2:679:VAL:HG13	2.36	0.61
1:5:309:ARG:NH2	1:5:686:GLU:OE1	2.27	0.61
1:6:279:THR:OG1	1:6:377:TYR:O	2.16	0.61
1:a:288:ARG:NH1	1:a:363:CYS:SG	2.74	0.61
1:h:436:MET:CE	1:h:471:MET:SD	2.88	0.61
1:j:288:ARG:NH1	1:j:363:CYS:SG	2.74	0.61
1:k:436:MET:CE	1:k:471:MET:SD	2.88	0.61
1:n:247:TRP:CD1	1:n:679:VAL:HG13	2.36	0.61
1:p:288:ARG:NH1	1:p:363:CYS:SG	2.74	0.61
1:8:309:ARG:NH2	1:8:686:GLU:OE1	2.27	0.61
1:D:247:TRP:CD1	1:D:679:VAL:HG13	2.36	0.61
1:D:288:ARG:NH1	1:D:363:CYS:SG	2.74	0.61
1:D:554:ASP:OD1	1:P:462:LYS:NZ	2.25	0.61
1:G:247:TRP:CD1	1:G:679:VAL:HG13	2.35	0.61
1:G:309:ARG:NH2	1:G:686:GLU:OE1	2.27	0.61
1:I:247:TRP:CD1	1:I:679:VAL:HG13	2.36	0.61
1:L:579:GLN:NE2	1:L:593:THR:OG1	2.29	0.61
1:O:243:SER:HB3	1:O:245:ARG:NH1	2.09	0.61
1:S:247:TRP:CD1	1:S:679:VAL:HG13	2.36	0.61
1:X:355:VAL:H	1:X:646:GLN:NE2	1.98	0.61
1:Y:288:ARG:NH1	1:Y:363:CYS:SG	2.74	0.61
1:5:352:LEU:HD11	1:5:400:PHE:CE2	2.33	0.61
1:c:693:LYS:HE2	1:d:400:PHE:CD1	2.35	0.61
1:h:352:LEU:HD11	1:h:400:PHE:CE2	2.32	0.61
1:k:559:MET:CG	1:k:726:PRO:CD	2.64	0.61
1:n:490:SER:HA	1:n:534:PHE:CB	2.27	0.61
1:o:355:VAL:H	1:o:646:GLN:NE2	1.98	0.61
1:r:243:SER:HB3	1:r:245:ARG:NH1	2.09	0.61
1:s:247:TRP:CD1	1:s:679:VAL:HG13	2.36	0.61
1:y:559:MET:HG2	1:y:726:PRO:CD	2.30	0.61
1:7:309:ARG:NH2	1:7:686:GLU:OE1	2.27	0.61
1:7:721:TYR:HH	1:8:695:TRP:HZ2	1.47	0.61
1:G:695:TRP:HZ2	1:H:721:TYR:HH	1.49	0.60
1:L:288:ARG:NH1	1:L:363:CYS:SG	2.74	0.60
1:V:559:MET:HG2	1:V:726:PRO:CD	2.30	0.60
1:Z:462:LYS:NZ	1:x:554:ASP:OD1	2.26	0.60
1:Z:563:GLU:OE2	1:Z:613:TYR:OH	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:247:TRP:CD1	1:1:679:VAL:HG13	2.36	0.60
1:2:288:ARG:NH1	1:2:363:CYS:SG	2.74	0.60
1:c:288:ARG:NH1	1:c:363:CYS:SG	2.74	0.60
1:e:436:MET:CE	1:e:471:MET:SD	2.88	0.60
1:m:288:ARG:NH1	1:m:363:CYS:SG	2.74	0.60
1:o:288:ARG:NH1	1:o:363:CYS:SG	2.74	0.60
1:u:579:GLN:NE2	1:u:593:THR:OG1	2.29	0.60
1:v:247:TRP:CD1	1:v:679:VAL:HG13	2.36	0.60
1:v:288:ARG:NH1	1:v:363:CYS:SG	2.74	0.60
1:z:247:TRP:CD1	1:z:679:VAL:HG13	2.36	0.60
1:7:695:TRP:HZ2	1:8:721:TYR:HH	1.48	0.60
1:A:341:THR:HG1	1:A:652:THR:HG1	1.49	0.60
1:H:247:TRP:CD1	1:H:679:VAL:HG13	2.35	0.60
1:H:436:MET:CE	1:H:471:MET:SD	2.88	0.60
1:L:247:TRP:CD1	1:L:679:VAL:HG13	2.36	0.60
1:O:352:LEU:HD11	1:O:400:PHE:CE2	2.32	0.60
1:T:247:TRP:CD1	1:T:679:VAL:HG13	2.36	0.60
1:Z:247:TRP:CD1	1:Z:679:VAL:HG13	2.36	0.60
1:1:288:ARG:NH1	1:1:363:CYS:SG	2.74	0.60
1:a:247:TRP:CD1	1:a:679:VAL:HG13	2.36	0.60
1:g:559:MET:HG2	1:g:726:PRO:CD	2.30	0.60
1:k:247:TRP:CD1	1:k:679:VAL:HG13	2.35	0.60
1:l:288:ARG:NH1	1:l:363:CYS:SG	2.74	0.60
1:m:279:THR:OG1	1:m:377:TYR:O	2.16	0.60
1:o:559:MET:CG	1:o:726:PRO:CD	2.64	0.60
1:r:247:TRP:CD1	1:r:679:VAL:HG13	2.36	0.60
1:r:288:ARG:NH1	1:r:363:CYS:SG	2.74	0.60
1:r:559:MET:HG2	1:r:726:PRO:CD	2.30	0.60
1:E:247:TRP:CD1	1:E:679:VAL:HG13	2.35	0.60
1:E:436:MET:CE	1:E:471:MET:SD	2.88	0.60
1:J:490:SER:HA	1:J:534:PHE:CB	2.27	0.60
1:K:559:MET:HG2	1:K:726:PRO:CD	2.30	0.60
1:L:559:MET:CG	1:L:726:PRO:CD	2.64	0.60
1:O:309:ARG:NH2	1:O:686:GLU:OE1	2.27	0.60
1:R:288:ARG:NH1	1:R:363:CYS:SG	2.74	0.60
1:S:559:MET:HG2	1:S:726:PRO:CD	2.30	0.60
1:W:288:ARG:NH1	1:W:363:CYS:SG	2.74	0.60
1:W:695:TRP:HZ2	1:X:721:TYR:HH	1.50	0.60
1:X:559:MET:HG2	1:X:726:PRO:CD	2.30	0.60
1:Y:490:SER:HA	1:Y:534:PHE:CB	2.27	0.60
1:3:559:MET:CG	1:3:726:PRO:CD	2.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:247:TRP:CD1	1:5:679:VAL:HG13	2.36	0.60
1:5:559:MET:CG	1:5:726:PRO:CD	2.64	0.60
1:d:478:TYR:CE2	1:e:623:PRO:HD3	2.35	0.60
1:d:559:MET:HG2	1:d:726:PRO:CD	2.30	0.60
1:e:247:TRP:CD1	1:e:679:VAL:HG13	2.36	0.60
1:g:288:ARG:NH1	1:g:363:CYS:SG	2.74	0.60
1:h:559:MET:HG2	1:h:726:PRO:CD	2.30	0.60
1:j:247:TRP:CD1	1:j:679:VAL:HG13	2.35	0.60
1:l:563:GLU:OE2	1:l:613:TYR:OH	2.17	0.60
1:m:490:SER:HA	1:m:534:PHE:CB	2.27	0.60
1:r:309:ARG:NH2	1:r:686:GLU:OE1	2.27	0.60
1:x:288:ARG:NH1	1:x:363:CYS:SG	2.74	0.60
1:z:288:ARG:NH1	1:z:363:CYS:SG	2.74	0.60
1:A:590:GLN:HA	1:G:497:ASN:HD22	1.66	0.60
1:G:288:ARG:NH1	1:G:363:CYS:SG	2.74	0.60
1:H:288:ARG:NH1	1:H:363:CYS:SG	2.74	0.60
1:H:559:MET:CG	1:H:726:PRO:CD	2.64	0.60
1:M:497:ASN:HD22	1:2:590:GLN:HA	1.67	0.60
1:O:247:TRP:CD1	1:O:679:VAL:HG13	2.36	0.60
1:V:352:LEU:HD11	1:V:400:PHE:CE2	2.33	0.60
1:3:288:ARG:NH1	1:3:363:CYS:SG	2.74	0.60
1:5:559:MET:HG2	1:5:726:PRO:CD	2.30	0.60
1:a:554:ASP:OD1	1:b:462:LYS:NZ	2.25	0.60
1:k:288:ARG:NH1	1:k:363:CYS:SG	2.74	0.60
1:k:497:ASN:HD22	1:m:590:GLN:HA	1.67	0.60
1:n:590:GLN:HA	1:o:497:ASN:HD22	1.67	0.60
1:o:247:TRP:CD1	1:o:679:VAL:HG13	2.36	0.60
1:A:559:MET:HG2	1:A:726:PRO:CD	2.30	0.60
1:C:579:GLN:NE2	1:C:593:THR:OG1	2.29	0.60
1:D:497:ASN:HD22	1:P:590:GLN:HA	1.67	0.60
1:K:497:ASN:HD22	1:8:590:GLN:HA	1.67	0.60
1:K:590:GLN:HA	1:1:497:ASN:HD22	1.67	0.60
1:N:436:MET:CE	1:N:471:MET:HG2	2.27	0.60
1:S:288:ARG:NH1	1:S:363:CYS:SG	2.74	0.60
1:S:490:SER:HA	1:S:534:PHE:CB	2.27	0.60
1:T:288:ARG:NH1	1:T:363:CYS:SG	2.74	0.60
1:T:559:MET:HG2	1:T:726:PRO:CD	2.30	0.60
1:X:288:ARG:NH1	1:X:363:CYS:SG	2.74	0.60
1:Y:279:THR:OG1	1:Y:377:TYR:O	2.16	0.60
1:1:559:MET:HG2	1:1:726:PRO:CD	2.30	0.60
1:3:554:ASP:OD1	1:j:462:LYS:NZ	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:247:TRP:CD1	1:6:679:VAL:HG13	2.36	0.60
1:6:309:ARG:NH2	1:6:686:GLU:OE1	2.27	0.60
1:a:497:ASN:HD22	1:b:590:GLN:HA	1.67	0.60
1:n:721:TYR:HH	1:y:695:TRP:HZ2	1.47	0.60
1:y:497:ASN:HD22	1:7:590:GLN:HA	1.67	0.60
1:y:579:GLN:NE2	1:y:593:THR:OG1	2.29	0.60
1:z:559:MET:HG2	1:z:726:PRO:CD	2.30	0.60
1:C:288:ARG:NH1	1:C:363:CYS:SG	2.74	0.60
1:G:559:MET:HG2	1:G:726:PRO:CD	2.30	0.60
1:G:590:GLN:HA	1:I:497:ASN:HD22	1.67	0.60
1:H:497:ASN:HD22	1:Y:590:GLN:HA	1.67	0.60
1:J:590:GLN:HA	1:L:497:ASN:HD22	1.67	0.60
1:L:559:MET:HG2	1:L:726:PRO:CD	2.30	0.60
1:N:247:TRP:CD1	1:N:679:VAL:HG13	2.36	0.60
1:N:559:MET:HG2	1:N:726:PRO:CD	2.30	0.60
1:O:559:MET:HG2	1:O:726:PRO:CD	2.30	0.60
1:Q:352:LEU:HD11	1:Q:400:PHE:CE2	2.33	0.60
1:U:279:THR:OG1	1:U:377:TYR:O	2.16	0.60
1:X:436:MET:CE	1:X:471:MET:SD	2.88	0.60
1:c:559:MET:CG	1:c:726:PRO:CD	2.64	0.60
1:g:436:MET:CE	1:g:471:MET:SD	2.88	0.60
1:l:462:LYS:NZ	1:m:554:ASP:OD1	2.26	0.60
1:o:590:GLN:HA	1:p:497:ASN:HD22	1.67	0.60
1:q:559:MET:HG2	1:q:726:PRO:CD	2.30	0.60
1:u:288:ARG:NH1	1:u:363:CYS:SG	2.74	0.60
1:y:590:GLN:HA	1:z:497:ASN:HD22	1.67	0.60
1:C:309:ARG:NH2	1:C:686:GLU:OE1	2.27	0.60
1:F:559:MET:HG2	1:F:726:PRO:CD	2.30	0.60
1:N:309:ARG:NH2	1:N:686:GLU:OE1	2.27	0.60
1:S:341:THR:HG1	1:S:652:THR:HG1	1.49	0.60
1:V:590:GLN:HA	1:5:497:ASN:HD22	1.67	0.60
1:1:695:TRP:HZ2	1:w:721:TYR:HH	1.49	0.60
1:3:490:SER:HA	1:3:534:PHE:CB	2.28	0.60
1:c:695:TRP:HZ2	1:f:721:TYR:HH	1.47	0.60
1:k:590:GLN:HA	1:l:497:ASN:HD22	1.67	0.60
1:q:247:TRP:CD1	1:q:679:VAL:HG13	2.36	0.60
1:q:418:GLU:OE2	1:q:641:LYS:N	2.35	0.60
1:r:590:GLN:HA	1:s:497:ASN:HD22	1.67	0.60
1:A:247:TRP:CD1	1:A:679:VAL:HG13	2.36	0.60
1:A:418:GLU:OE2	1:A:641:LYS:N	2.35	0.60
1:B:497:ASN:HD22	1:L:590:GLN:HA	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:590:GLN:HA	1:N:497:ASN:HD22	1.67	0.60
1:L:286:PHE:HB3	1:L:364:LEU:HD13	1.84	0.60
1:O:497:ASN:HD22	1:h:590:GLN:HA	1.67	0.60
1:O:559:MET:CG	1:O:726:PRO:CD	2.64	0.60
1:6:497:ASN:HD22	1:a:590:GLN:HA	1.67	0.60
1:c:352:LEU:HD11	1:c:400:PHE:CE2	2.33	0.60
1:t:497:ASN:HD22	1:v:590:GLN:HA	1.67	0.60
1:8:559:MET:HG2	1:8:726:PRO:CD	2.30	0.60
1:A:497:ASN:HD22	1:I:590:GLN:HA	1.65	0.60
1:H:590:GLN:HA	1:W:497:ASN:HD22	1.67	0.60
1:K:579:GLN:NE2	1:K:593:THR:OG1	2.29	0.60
1:L:234:TRP:NE1	1:L:297:ASP:OD1	2.35	0.60
1:Q:247:TRP:CD1	1:Q:679:VAL:HG13	2.35	0.60
1:S:579:GLN:NE2	1:S:593:THR:OG1	2.29	0.60
1:T:579:GLN:NE2	1:T:593:THR:OG1	2.29	0.60
1:3:286:PHE:HB3	1:3:364:LEU:HD13	1.84	0.60
1:4:279:THR:OG1	1:4:377:TYR:O	2.16	0.60
1:4:590:GLN:HA	1:f:497:ASN:HD22	1.67	0.60
1:6:559:MET:HG2	1:6:726:PRO:CD	2.30	0.60
1:c:247:TRP:CD1	1:c:679:VAL:HG13	2.36	0.60
1:d:391:ARG:NH1	1:f:705:TYR:CE1	2.70	0.60
1:f:288:ARG:NH1	1:f:363:CYS:SG	2.74	0.60
1:o:286:PHE:HB3	1:o:364:LEU:HD13	1.84	0.60
1:o:559:MET:HG2	1:o:726:PRO:CD	2.30	0.60
1:x:286:PHE:HB3	1:x:364:LEU:HD13	1.84	0.60
1:L:309:ARG:NH2	1:L:686:GLU:OE1	2.27	0.60
1:U:286:PHE:HB3	1:U:364:LEU:HD13	1.84	0.60
1:W:462:LYS:NZ	1:Y:554:ASP:OD1	2.26	0.60
1:Z:490:SER:HA	1:Z:534:PHE:CB	2.27	0.60
1:2:418:GLU:OE2	1:2:641:LYS:N	2.35	0.60
1:4:286:PHE:HB3	1:4:364:LEU:HD13	1.84	0.60
1:d:590:GLN:HA	1:e:497:ASN:HD22	1.66	0.60
1:i:418:GLU:OE2	1:i:641:LYS:N	2.35	0.60
1:n:497:ASN:HD22	1:p:590:GLN:HA	1.67	0.60
1:o:234:TRP:NE1	1:o:297:ASP:OD1	2.35	0.60
1:q:590:GLN:HA	1:r:497:ASN:HD22	1.66	0.60
1:x:490:SER:HA	1:x:534:PHE:CB	2.27	0.60
1:F:497:ASN:HD22	1:Q:590:GLN:HA	1.67	0.59
1:Q:288:ARG:NH1	1:Q:363:CYS:SG	2.74	0.59
1:Q:559:MET:CG	1:Q:726:PRO:CD	2.64	0.59
1:R:497:ASN:HD22	1:U:590:GLN:HA	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:497:ASN:HD22	1:5:590:GLN:HA	1.67	0.59
1:u:249:LEU:HB2	1:u:374:ILE:HD12	1.85	0.59
1:u:309:ARG:NH2	1:u:686:GLU:OE1	2.27	0.59
1:v:418:GLU:OE2	1:v:641:LYS:N	2.35	0.59
1:w:418:GLU:OE2	1:w:641:LYS:N	2.35	0.59
1:z:418:GLU:OE2	1:z:641:LYS:N	2.35	0.59
1:7:559:MET:HG2	1:7:726:PRO:CD	2.30	0.59
1:B:590:GLN:HA	1:J:497:ASN:HD22	1.67	0.59
1:C:249:LEU:HB2	1:C:374:ILE:HD12	1.85	0.59
1:N:286:PHE:HB3	1:N:364:LEU:HD13	1.84	0.59
1:1:418:GLU:OE2	1:1:641:LYS:N	2.35	0.59
1:2:249:LEU:HB2	1:2:374:ILE:HD12	1.84	0.59
1:a:234:TRP:NE1	1:a:297:ASP:OD1	2.35	0.59
1:b:309:ARG:NH2	1:b:686:GLU:OE1	2.27	0.59
1:g:286:PHE:HB3	1:g:364:LEU:HD13	1.84	0.59
1:g:579:GLN:NE2	1:g:593:THR:OG1	2.29	0.59
1:j:490:SER:HA	1:j:534:PHE:CB	2.27	0.59
1:7:286:PHE:HB3	1:7:364:LEU:HD13	1.84	0.59
1:7:418:GLU:OE2	1:7:641:LYS:N	2.35	0.59
1:8:286:PHE:HB3	1:8:364:LEU:HD13	1.84	0.59
1:A:286:PHE:HB3	1:A:364:LEU:HD13	1.84	0.59
1:D:286:PHE:HB3	1:D:364:LEU:HD13	1.84	0.59
1:E:721:TYR:HH	1:P:695:TRP:HZ2	1.50	0.59
1:N:249:LEU:HB2	1:N:374:ILE:HD12	1.85	0.59
1:O:590:GLN:HA	1:g:497:ASN:HD22	1.67	0.59
1:P:309:ARG:NH2	1:P:686:GLU:OE1	2.27	0.59
1:W:590:GLN:HA	1:Y:497:ASN:HD22	1.67	0.59
1:X:286:PHE:HB3	1:X:364:LEU:HD13	1.84	0.59
1:6:249:LEU:HB2	1:6:374:ILE:HD12	1.85	0.59
1:6:286:PHE:HB3	1:6:364:LEU:HD13	1.84	0.59
1:6:590:GLN:HA	1:b:497:ASN:HD22	1.67	0.59
1:b:695:TRP:HZ2	1:e:721:TYR:HH	1.51	0.59
1:i:721:TYR:HH	1:z:695:TRP:HZ2	1.50	0.59
1:m:249:LEU:HB2	1:m:374:ILE:HD12	1.85	0.59
1:o:309:ARG:NH2	1:o:686:GLU:OE1	2.27	0.59
1:q:286:PHE:HB3	1:q:364:LEU:HD13	1.84	0.59
1:v:249:LEU:HB2	1:v:374:ILE:HD12	1.85	0.59
1:7:279:THR:OG1	1:7:377:TYR:O	2.16	0.59
1:8:279:THR:OG1	1:8:377:TYR:O	2.16	0.59
1:8:418:GLU:OE2	1:8:641:LYS:N	2.35	0.59
1:D:249:LEU:HB2	1:D:374:ILE:HD12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:249:LEU:HB2	1:E:374:ILE:HD12	1.85	0.59
1:E:418:GLU:OE2	1:E:641:LYS:N	2.35	0.59
1:F:286:PHE:HB3	1:F:364:LEU:HD13	1.84	0.59
1:O:400:PHE:CD1	1:h:693:LYS:HE2	2.38	0.59
1:S:309:ARG:NH2	1:S:686:GLU:OE1	2.27	0.59
1:T:286:PHE:HB3	1:T:364:LEU:HD13	1.84	0.59
1:V:693:LYS:HE2	1:5:400:PHE:CD1	2.38	0.59
1:Y:249:LEU:HB2	1:Y:374:ILE:HD12	1.85	0.59
1:2:559:MET:HG2	1:2:726:PRO:CD	2.30	0.59
1:3:497:ASN:HD22	1:j:590:GLN:HA	1.67	0.59
1:a:249:LEU:HB2	1:a:374:ILE:HD12	1.85	0.59
1:a:286:PHE:HB3	1:a:364:LEU:HD13	1.84	0.59
1:e:249:LEU:HB2	1:e:374:ILE:HD12	1.85	0.59
1:e:418:GLU:OE2	1:e:641:LYS:N	2.35	0.59
1:i:309:ARG:NH2	1:i:686:GLU:OE1	2.27	0.59
1:l:590:GLN:HA	1:m:497:ASN:HD22	1.67	0.59
1:m:286:PHE:HB3	1:m:364:LEU:HD13	1.84	0.59
1:n:286:PHE:HB3	1:n:364:LEU:HD13	1.84	0.59
1:t:309:ARG:NH2	1:t:686:GLU:OE1	2.27	0.59
1:w:309:ARG:NH2	1:w:686:GLU:OE1	2.27	0.59
1:G:234:TRP:NE1	1:G:297:ASP:OD1	2.35	0.59
1:K:400:PHE:CD1	1:8:693:LYS:HE2	2.38	0.59
1:N:590:GLN:HA	1:P:497:ASN:HD22	1.67	0.59
1:O:234:TRP:NE1	1:O:297:ASP:OD1	2.35	0.59
1:O:249:LEU:HB2	1:O:374:ILE:HD12	1.84	0.59
1:Q:249:LEU:HB2	1:Q:374:ILE:HD12	1.85	0.59
1:Q:695:TRP:HZ2	1:R:721:TYR:HH	1.48	0.59
1:R:559:MET:CG	1:R:726:PRO:CD	2.64	0.59
1:S:286:PHE:HB3	1:S:364:LEU:HD13	1.84	0.59
1:S:418:GLU:OE2	1:S:641:LYS:N	2.35	0.59
1:W:286:PHE:HB3	1:W:364:LEU:HD13	1.84	0.59
1:Y:286:PHE:HB3	1:Y:364:LEU:HD13	1.84	0.59
1:Z:590:GLN:HA	1:x:497:ASN:HD22	1.67	0.59
1:5:234:TRP:NE1	1:5:297:ASP:OD1	2.35	0.59
1:c:249:LEU:HB2	1:c:374:ILE:HD12	1.85	0.59
1:c:497:ASN:HD22	1:e:590:GLN:HA	1.67	0.59
1:d:286:PHE:HB3	1:d:364:LEU:HD13	1.84	0.59
1:i:249:LEU:HB2	1:i:374:ILE:HD12	1.85	0.59
1:n:279:THR:OG1	1:n:377:TYR:O	2.16	0.59
1:u:590:GLN:HA	1:v:497:ASN:HD22	1.67	0.59
1:v:559:MET:HG2	1:v:726:PRO:CD	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:400:PHE:CD1	1:7:693:LYS:HE2	2.38	0.59
1:C:590:GLN:HA	1:2:497:ASN:HD22	1.67	0.59
1:E:590:GLN:HA	1:Q:497:ASN:HD22	1.68	0.59
1:J:279:THR:OG1	1:J:377:TYR:O	2.16	0.59
1:J:286:PHE:HB3	1:J:364:LEU:HD13	1.84	0.59
1:M:418:GLU:OE2	1:M:641:LYS:N	2.35	0.59
1:T:249:LEU:HB2	1:T:374:ILE:HD12	1.85	0.59
1:T:418:GLU:OE2	1:T:641:LYS:N	2.35	0.59
1:3:234:TRP:NE1	1:3:297:ASP:OD1	2.35	0.59
1:3:590:GLN:HA	1:i:497:ASN:HD22	1.68	0.59
1:5:249:LEU:HB2	1:5:374:ILE:HD12	1.85	0.59
1:c:286:PHE:HB3	1:c:364:LEU:HD13	1.84	0.59
1:c:590:GLN:HA	1:d:497:ASN:HD22	1.68	0.59
1:j:721:TYR:HH	1:m:695:TRP:HZ2	1.51	0.59
1:l:286:PHE:HB3	1:l:364:LEU:HD13	1.84	0.59
1:q:249:LEU:HB2	1:q:374:ILE:HD12	1.85	0.59
1:r:234:TRP:NE1	1:r:297:ASP:OD1	2.35	0.59
1:s:418:GLU:OE2	1:s:641:LYS:N	2.35	0.59
1:t:418:GLU:OE2	1:t:641:LYS:N	2.35	0.59
1:w:249:LEU:HB2	1:w:374:ILE:HD12	1.85	0.59
1:x:234:TRP:NE1	1:x:297:ASP:OD1	2.35	0.59
1:A:249:LEU:HB2	1:A:374:ILE:HD12	1.85	0.59
1:C:341:THR:HG1	1:C:652:THR:HG1	1.50	0.59
1:C:418:GLU:OE2	1:C:641:LYS:N	2.35	0.59
1:C:559:MET:HG2	1:C:726:PRO:CD	2.30	0.59
1:E:400:PHE:CD1	1:F:693:LYS:HE2	2.38	0.59
1:F:490:SER:HA	1:F:534:PHE:CB	2.27	0.59
1:H:400:PHE:CD1	1:Y:693:LYS:HE2	2.38	0.59
1:I:418:GLU:OE2	1:I:641:LYS:N	2.35	0.59
1:M:309:ARG:NH2	1:M:686:GLU:OE1	2.27	0.59
1:O:286:PHE:HB3	1:O:364:LEU:HD13	1.84	0.59
1:P:249:LEU:HB2	1:P:374:ILE:HD12	1.84	0.59
1:S:249:LEU:HB2	1:S:374:ILE:HD12	1.85	0.59
1:Y:418:GLU:OE2	1:Y:641:LYS:N	2.35	0.59
1:Z:249:LEU:HB2	1:Z:374:ILE:HD12	1.85	0.59
1:a:695:TRP:HZ2	1:t:721:TYR:HH	1.49	0.59
1:c:400:PHE:CD1	1:e:693:LYS:HE2	2.37	0.59
1:d:309:ARG:NH2	1:d:686:GLU:OE1	2.27	0.59
1:f:559:MET:CG	1:f:726:PRO:CD	2.64	0.59
1:m:418:GLU:OE2	1:m:641:LYS:N	2.35	0.59
1:p:559:MET:HG2	1:p:726:PRO:CD	2.30	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:279:THR:OG1	1:r:377:TYR:O	2.16	0.59
1:u:418:GLU:OE2	1:u:641:LYS:N	2.35	0.59
1:x:418:GLU:OE2	1:x:641:LYS:N	2.35	0.59
1:G:279:THR:OG1	1:G:377:TYR:O	2.16	0.59
1:H:693:LYS:HE2	1:W:400:PHE:CD1	2.38	0.59
1:I:249:LEU:HB2	1:I:374:ILE:HD12	1.85	0.59
1:I:559:MET:HG2	1:I:726:PRO:CD	2.30	0.59
1:J:693:LYS:HE2	1:L:400:PHE:CD1	2.38	0.59
1:J:721:TYR:HH	1:K:695:TRP:HZ2	1.48	0.59
1:M:249:LEU:HB2	1:M:374:ILE:HD12	1.85	0.59
1:Q:286:PHE:HB3	1:Q:364:LEU:HD13	1.84	0.59
1:R:693:LYS:HE2	1:S:400:PHE:CD1	2.38	0.59
1:S:234:TRP:NE1	1:S:297:ASP:OD1	2.35	0.59
1:S:352:LEU:HD11	1:S:400:PHE:CE2	2.33	0.59
1:T:309:ARG:NH2	1:T:686:GLU:OE1	2.27	0.59
1:T:497:ASN:HD22	1:f:590:GLN:HA	1.67	0.59
1:V:497:ASN:HD22	1:X:590:GLN:HA	1.67	0.59
1:W:249:LEU:HB2	1:W:374:ILE:HD12	1.85	0.59
1:Y:309:ARG:NH2	1:Y:686:GLU:OE1	2.27	0.59
1:3:249:LEU:HB2	1:3:374:ILE:HD12	1.85	0.59
1:3:418:GLU:OE2	1:3:641:LYS:N	2.35	0.59
1:4:249:LEU:HB2	1:4:374:ILE:HD12	1.85	0.59
1:5:286:PHE:HB3	1:5:364:LEU:HD13	1.84	0.59
1:a:490:SER:HA	1:a:534:PHE:CB	2.27	0.59
1:b:249:LEU:HB2	1:b:374:ILE:HD12	1.85	0.59
1:j:249:LEU:HB2	1:j:374:ILE:HD12	1.85	0.59
1:k:286:PHE:HB3	1:k:364:LEU:HD13	1.84	0.59
1:k:400:PHE:CD1	1:m:693:LYS:HE2	2.38	0.59
1:k:693:LYS:HE2	1:l:400:PHE:CD1	2.38	0.59
1:n:693:LYS:HE2	1:o:400:PHE:CD1	2.38	0.59
1:q:497:ASN:HD22	1:s:590:GLN:HA	1.67	0.59
1:s:249:LEU:HB2	1:s:374:ILE:HD12	1.85	0.59
1:s:559:MET:HG2	1:s:726:PRO:CD	2.30	0.59
1:t:249:LEU:HB2	1:t:374:ILE:HD12	1.85	0.59
1:x:249:LEU:HB2	1:x:374:ILE:HD12	1.84	0.59
1:A:693:LYS:HE2	1:G:400:PHE:CD1	2.37	0.59
1:B:400:PHE:CD1	1:L:693:LYS:HE2	2.38	0.59
1:C:693:LYS:HE2	1:2:400:PHE:CD1	2.38	0.59
1:D:435:LEU:HD21	1:D:736:LEU:HD12	1.85	0.59
1:D:490:SER:HA	1:D:534:PHE:CB	2.27	0.59
1:E:279:THR:OG1	1:E:377:TYR:O	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:559:MET:HG2	1:E:726:PRO:CD	2.30	0.59
1:F:309:ARG:NH2	1:F:686:GLU:OE1	2.27	0.59
1:H:286:PHE:HB3	1:H:364:LEU:HD13	1.84	0.59
1:M:400:PHE:CD1	1:2:693:LYS:HE2	2.38	0.59
1:R:400:PHE:CD1	1:U:693:LYS:HE2	2.38	0.59
1:T:400:PHE:CD1	1:f:693:LYS:HE2	2.38	0.59
1:U:249:LEU:HB2	1:U:374:ILE:HD12	1.85	0.59
1:W:309:ARG:NH2	1:W:686:GLU:OE1	2.27	0.59
1:a:435:LEU:HD21	1:a:736:LEU:HD12	1.85	0.59
1:c:234:TRP:NE1	1:c:297:ASP:OD1	2.35	0.59
1:g:590:GLN:HA	1:h:497:ASN:HD22	1.67	0.59
1:h:435:LEU:HD21	1:h:736:LEU:HD12	1.85	0.59
1:i:234:TRP:NE1	1:i:297:ASP:OD1	2.35	0.59
1:l:249:LEU:HB2	1:l:374:ILE:HD12	1.85	0.59
1:o:693:LYS:HE2	1:p:400:PHE:CD1	2.37	0.59
1:r:418:GLU:OE2	1:r:641:LYS:N	2.35	0.59
1:t:400:PHE:CD1	1:v:693:LYS:HE2	2.38	0.59
1:u:693:LYS:HE2	1:v:400:PHE:CD1	2.38	0.59
1:7:249:LEU:HB2	1:7:374:ILE:HD12	1.85	0.59
1:8:249:LEU:HB2	1:8:374:ILE:HD12	1.85	0.59
1:B:490:SER:HA	1:B:534:PHE:CB	2.27	0.59
1:C:234:TRP:NE1	1:C:297:ASP:OD1	2.35	0.59
1:E:286:PHE:HB3	1:E:364:LEU:HD13	1.84	0.59
1:E:693:LYS:HE2	1:Q:400:PHE:CD1	2.37	0.59
1:G:418:GLU:OE2	1:G:641:LYS:N	2.35	0.59
1:G:435:LEU:HD21	1:G:736:LEU:HD12	1.85	0.59
1:H:435:LEU:HD21	1:H:736:LEU:HD12	1.85	0.59
1:I:559:MET:CG	1:I:726:PRO:CD	2.64	0.59
1:N:234:TRP:NE1	1:N:297:ASP:OD1	2.35	0.59
1:O:693:LYS:HE2	1:g:400:PHE:CD1	2.38	0.59
1:Q:234:TRP:NE1	1:Q:297:ASP:OD1	2.35	0.59
1:Q:707:LYS:CE	1:S:384:ASP:OD2	2.51	0.59
1:R:590:GLN:HA	1:S:497:ASN:HD22	1.67	0.59
1:T:234:TRP:NE1	1:T:297:ASP:OD1	2.35	0.59
1:T:590:GLN:HA	1:4:497:ASN:HD22	1.67	0.59
1:V:435:LEU:HD21	1:V:736:LEU:HD12	1.85	0.59
1:X:400:PHE:CD1	1:5:693:LYS:HE2	2.38	0.59
1:X:435:LEU:HD21	1:X:736:LEU:HD12	1.85	0.59
1:1:249:LEU:HB2	1:1:374:ILE:HD12	1.85	0.59
1:4:693:LYS:HE2	1:f:400:PHE:CD1	2.38	0.59
1:b:721:TYR:HH	1:e:695:TRP:HZ2	1.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:490:SER:HA	1:d:534:PHE:CB	2.27	0.59
1:e:279:THR:OG1	1:e:377:TYR:O	2.16	0.59
1:e:286:PHE:HB3	1:e:364:LEU:HD13	1.84	0.59
1:f:384:ASP:OD2	1:h:707:LYS:CE	2.51	0.59
1:g:435:LEU:HD21	1:g:736:LEU:HD12	1.85	0.59
1:i:462:LYS:NZ	1:j:554:ASP:OD1	2.27	0.59
1:r:435:LEU:HD21	1:r:736:LEU:HD12	1.85	0.59
1:s:286:PHE:HB3	1:s:364:LEU:HD13	1.84	0.59
1:s:559:MET:CG	1:s:726:PRO:CD	2.64	0.59
1:u:234:TRP:NE1	1:u:297:ASP:OD1	2.35	0.59
1:u:559:MET:HG2	1:u:726:PRO:CD	2.30	0.59
1:w:435:LEU:HD21	1:w:736:LEU:HD12	1.85	0.59
1:7:490:SER:HA	1:7:534:PHE:CB	2.27	0.59
1:C:497:ASN:HD22	1:M:590:GLN:HA	1.67	0.58
1:I:286:PHE:HB3	1:I:364:LEU:HD13	1.84	0.58
1:N:693:LYS:HE2	1:P:400:PHE:CD1	2.38	0.58
1:N:705:TYR:CE1	1:g:391:ARG:NH1	2.71	0.58
1:P:286:PHE:HB3	1:P:364:LEU:HD13	1.84	0.58
1:Q:279:THR:OG1	1:Q:377:TYR:O	2.16	0.58
1:Q:705:TYR:CE1	1:S:391:ARG:NH1	2.71	0.58
1:R:384:ASP:OD2	1:V:707:LYS:CE	2.51	0.58
1:W:693:LYS:HE2	1:Y:400:PHE:CD1	2.38	0.58
1:X:391:ARG:NH1	1:6:705:TYR:CE1	2.71	0.58
1:Z:693:LYS:HE2	1:x:400:PHE:CD1	2.38	0.58
1:3:400:PHE:CD1	1:j:693:LYS:HE2	2.38	0.58
1:4:721:TYR:HH	1:h:695:TRP:HZ2	1.51	0.58
1:e:559:MET:HG2	1:e:726:PRO:CD	2.30	0.58
1:i:435:LEU:HD21	1:i:736:LEU:HD12	1.85	0.58
1:k:435:LEU:HD21	1:k:736:LEU:HD12	1.85	0.58
1:l:693:LYS:HE2	1:m:400:PHE:CD1	2.38	0.58
1:m:309:ARG:NH2	1:m:686:GLU:OE1	2.27	0.58
1:m:435:LEU:HD21	1:m:736:LEU:HD12	1.85	0.58
1:w:234:TRP:NE1	1:w:297:ASP:OD1	2.35	0.58
1:B:309:ARG:O	1:B:686:GLU:N	2.36	0.58
1:B:693:LYS:HE2	1:J:400:PHE:CD1	2.38	0.58
1:C:352:LEU:HD21	1:C:400:PHE:CE2	2.39	0.58
1:E:497:ASN:HD22	1:F:590:GLN:HA	1.67	0.58
1:G:352:LEU:HD21	1:G:400:PHE:CE2	2.39	0.58
1:L:249:LEU:HB2	1:L:374:ILE:HD12	1.84	0.58
1:N:352:LEU:HD21	1:N:400:PHE:CE2	2.39	0.58
1:S:590:GLN:HA	1:U:497:ASN:HD22	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:400:PHE:CD1	1:X:693:LYS:HE2	2.38	0.58
1:X:352:LEU:HD21	1:X:400:PHE:CE2	2.39	0.58
1:Y:435:LEU:HD21	1:Y:736:LEU:HD12	1.85	0.58
1:Y:705:TYR:CE1	1:x:391:ARG:NH1	2.72	0.58
1:Z:400:PHE:CD1	1:w:693:LYS:HE2	2.37	0.58
1:3:391:ARG:NH1	1:m:705:TYR:CE1	2.71	0.58
1:6:234:TRP:NE1	1:6:297:ASP:OD1	2.35	0.58
1:6:693:LYS:HE2	1:b:400:PHE:CD1	2.38	0.58
1:a:279:THR:OG1	1:a:377:TYR:O	2.16	0.58
1:a:705:TYR:CE1	1:u:391:ARG:NH1	2.72	0.58
1:e:384:ASP:OD2	1:q:707:LYS:CE	2.51	0.58
1:g:352:LEU:HD21	1:g:400:PHE:CE2	2.39	0.58
1:h:384:ASP:OD2	1:l:707:LYS:CE	2.52	0.58
1:o:249:LEU:HB2	1:o:374:ILE:HD12	1.84	0.58
1:p:309:ARG:O	1:p:686:GLU:N	2.36	0.58
1:v:341:THR:HG1	1:v:652:THR:HG1	1.51	0.58
1:w:400:PHE:CD1	1:x:693:LYS:HE2	2.37	0.58
1:x:309:ARG:O	1:x:686:GLU:N	2.36	0.58
1:z:249:LEU:HB2	1:z:374:ILE:HD12	1.85	0.58
1:B:249:LEU:HB2	1:B:374:ILE:HD12	1.85	0.58
1:F:352:LEU:HD21	1:F:400:PHE:CE2	2.39	0.58
1:J:249:LEU:HB2	1:J:374:ILE:HD12	1.84	0.58
1:J:418:GLU:OE2	1:J:641:LYS:N	2.35	0.58
1:K:490:SER:HA	1:K:534:PHE:CB	2.27	0.58
1:L:352:LEU:HD21	1:L:400:PHE:CE2	2.39	0.58
1:R:435:LEU:HD21	1:R:736:LEU:HD12	1.85	0.58
1:U:352:LEU:HD21	1:U:400:PHE:CE2	2.38	0.58
1:V:234:TRP:NE1	1:V:297:ASP:OD1	2.35	0.58
1:V:352:LEU:HD21	1:V:400:PHE:CE2	2.39	0.58
1:V:384:ASP:OD2	1:W:707:LYS:CE	2.52	0.58
1:6:352:LEU:HD21	1:6:400:PHE:CE2	2.39	0.58
1:c:279:THR:OG1	1:c:377:TYR:O	2.16	0.58
1:d:352:LEU:HD21	1:d:400:PHE:CE2	2.39	0.58
1:f:286:PHE:HB3	1:f:364:LEU:HD13	1.84	0.58
1:g:693:LYS:HE2	1:h:400:PHE:CD1	2.38	0.58
1:h:352:LEU:HD21	1:h:400:PHE:CE2	2.39	0.58
1:i:286:PHE:HB3	1:i:364:LEU:HD13	1.84	0.58
1:m:579:GLN:NE2	1:m:593:THR:OG1	2.29	0.58
1:n:418:GLU:OE2	1:n:641:LYS:N	2.35	0.58
1:o:352:LEU:HD21	1:o:400:PHE:CE2	2.39	0.58
1:p:249:LEU:HB2	1:p:374:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:490:SER:HA	1:p:534:PHE:CB	2.27	0.58
1:r:352:LEU:HD21	1:r:400:PHE:CE2	2.39	0.58
1:u:352:LEU:HD21	1:u:400:PHE:CE2	2.39	0.58
1:v:705:TYR:CE1	1:w:391:ARG:NH1	2.71	0.58
1:z:352:LEU:HD21	1:z:400:PHE:CE2	2.39	0.58
1:8:234:TRP:NE1	1:8:297:ASP:OD1	2.35	0.58
1:8:490:SER:HA	1:8:534:PHE:CB	2.27	0.58
1:A:309:ARG:NH2	1:A:686:GLU:OE1	2.27	0.58
1:A:352:LEU:HD21	1:A:400:PHE:CE2	2.39	0.58
1:B:559:MET:HG2	1:B:726:PRO:CD	2.30	0.58
1:C:391:ARG:NH1	1:D:705:TYR:CE1	2.72	0.58
1:D:352:LEU:HD21	1:D:400:PHE:CE2	2.39	0.58
1:D:384:ASP:OD2	1:E:707:LYS:CE	2.51	0.58
1:E:695:TRP:HZ2	1:P:721:TYR:HH	1.51	0.58
1:F:400:PHE:CD1	1:Q:693:LYS:HE2	2.37	0.58
1:I:707:LYS:CE	1:J:384:ASP:OD2	2.52	0.58
1:O:352:LEU:HD21	1:O:400:PHE:CE2	2.39	0.58
1:O:435:LEU:HD21	1:O:736:LEU:HD12	1.85	0.58
1:Q:435:LEU:HD21	1:Q:736:LEU:HD12	1.85	0.58
1:R:286:PHE:HB3	1:R:364:LEU:HD13	1.84	0.58
1:S:693:LYS:HE2	1:U:400:PHE:CD1	2.38	0.58
1:U:435:LEU:HD21	1:U:736:LEU:HD12	1.85	0.58
1:1:352:LEU:HD21	1:1:400:PHE:CE2	2.39	0.58
1:4:352:LEU:HD21	1:4:400:PHE:CE2	2.38	0.58
1:4:435:LEU:HD21	1:4:736:LEU:HD12	1.85	0.58
1:5:352:LEU:HD21	1:5:400:PHE:CE2	2.39	0.58
1:a:352:LEU:HD21	1:a:400:PHE:CE2	2.39	0.58
1:b:286:PHE:HB3	1:b:364:LEU:HD13	1.84	0.58
1:h:234:TRP:NE1	1:h:297:ASP:OD1	2.35	0.58
1:l:309:ARG:NH2	1:l:686:GLU:OE1	2.27	0.58
1:n:384:ASP:OD2	1:s:707:LYS:CE	2.52	0.58
1:n:400:PHE:CD1	1:p:693:LYS:HE2	2.38	0.58
1:p:234:TRP:NE1	1:p:297:ASP:OD1	2.35	0.58
1:p:705:TYR:CE1	1:q:391:ARG:NH1	2.71	0.58
1:q:309:ARG:NH2	1:q:686:GLU:OE1	2.27	0.58
1:q:352:LEU:HD21	1:q:400:PHE:CE2	2.39	0.58
1:t:590:GLN:HA	1:u:497:ASN:HD22	1.67	0.58
1:v:707:LYS:CE	1:w:384:ASP:OD2	2.52	0.58
1:z:693:LYS:HE2	1:7:400:PHE:CD1	2.38	0.58
1:A:391:ARG:NH1	1:B:705:TYR:CE1	2.71	0.58
1:B:234:TRP:NE1	1:B:297:ASP:OD1	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:279:THR:OG1	1:D:377:TYR:O	2.16	0.58
1:G:249:LEU:HB2	1:G:374:ILE:HD12	1.85	0.58
1:L:705:TYR:CE1	1:2:391:ARG:NH1	2.71	0.58
1:T:693:LYS:HE2	1:4:400:PHE:CD1	2.38	0.58
1:W:352:LEU:HD21	1:W:400:PHE:CE2	2.39	0.58
1:1:693:LYS:HE2	1:8:400:PHE:CD1	2.38	0.58
1:2:705:TYR:CE1	1:i:391:ARG:NH1	2.72	0.58
1:5:435:LEU:HD21	1:5:736:LEU:HD12	1.85	0.58
1:a:384:ASP:OD2	1:e:707:LYS:CE	2.52	0.58
1:c:435:LEU:HD21	1:c:736:LEU:HD12	1.85	0.58
1:f:435:LEU:HD21	1:f:736:LEU:HD12	1.85	0.58
1:i:693:LYS:HE2	1:j:400:PHE:CD1	2.37	0.58
1:j:418:GLU:OE2	1:j:641:LYS:N	2.35	0.58
1:n:249:LEU:HB2	1:n:374:ILE:HD12	1.85	0.58
1:q:693:LYS:HE2	1:r:400:PHE:CD1	2.38	0.58
1:r:249:LEU:HB2	1:r:374:ILE:HD12	1.85	0.58
1:w:286:PHE:HB3	1:w:364:LEU:HD13	1.84	0.58
1:w:497:ASN:HD22	1:x:590:GLN:HA	1.69	0.58
1:7:234:TRP:NE1	1:7:297:ASP:OD1	2.35	0.58
1:I:435:LEU:HD21	1:I:736:LEU:HD12	1.85	0.58
1:M:286:PHE:HB3	1:M:364:LEU:HD13	1.84	0.58
1:M:352:LEU:HD21	1:M:400:PHE:CE2	2.39	0.58
1:M:391:ARG:NH1	1:3:705:TYR:CE1	2.72	0.58
1:N:695:TRP:HZ2	1:O:721:TYR:HH	1.50	0.58
1:V:391:ARG:NH1	1:W:705:TYR:CE1	2.72	0.58
1:Z:418:GLU:OE2	1:Z:641:LYS:N	2.35	0.58
1:2:286:PHE:HB3	1:2:364:LEU:HD13	1.84	0.58
1:2:707:LYS:CE	1:i:384:ASP:OD2	2.52	0.58
1:5:721:TYR:HH	1:6:695:TRP:HZ2	1.50	0.58
1:6:400:PHE:CD1	1:a:693:LYS:HE2	2.38	0.58
1:l:352:LEU:HD21	1:l:400:PHE:CE2	2.39	0.58
1:o:462:LYS:NZ	1:p:554:ASP:OD1	2.26	0.58
1:o:705:TYR:CE1	1:v:391:ARG:NH1	2.71	0.58
1:s:435:LEU:HD21	1:s:736:LEU:HD12	1.85	0.58
1:t:286:PHE:HB3	1:t:364:LEU:HD13	1.84	0.58
1:t:352:LEU:HD21	1:t:400:PHE:CE2	2.39	0.58
1:x:309:ARG:NH2	1:x:686:GLU:OE1	2.27	0.58
1:y:490:SER:HA	1:y:534:PHE:CB	2.27	0.58
1:C:490:SER:HA	1:C:534:PHE:CB	2.27	0.58
1:D:693:LYS:HE2	1:N:400:PHE:CD1	2.38	0.58
1:F:418:GLU:OE2	1:F:641:LYS:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:286:PHE:HB3	1:G:364:LEU:HD13	1.84	0.58
1:J:705:TYR:CE1	1:1:391:ARG:NH1	2.72	0.58
1:N:707:LYS:CE	1:g:384:ASP:OD2	2.51	0.58
1:R:352:LEU:HD21	1:R:400:PHE:CE2	2.39	0.58
1:X:384:ASP:OD2	1:6:707:LYS:CE	2.51	0.58
1:1:299:GLN:OE1	1:w:698:GLU:N	2.37	0.58
1:1:590:GLN:HA	1:8:497:ASN:HD22	1.67	0.58
1:3:693:LYS:HE2	1:i:400:PHE:CD1	2.37	0.58
1:d:418:GLU:OE2	1:d:641:LYS:N	2.35	0.58
1:h:391:ARG:NH1	1:l:705:TYR:CE1	2.72	0.58
1:j:234:TRP:NE1	1:j:297:ASP:OD1	2.35	0.58
1:n:705:TYR:CE1	1:z:391:ARG:NH1	2.72	0.58
1:r:286:PHE:HB3	1:r:364:LEU:HD13	1.84	0.58
1:v:286:PHE:HB3	1:v:364:LEU:HD13	1.84	0.58
1:z:590:GLN:HA	1:7:497:ASN:HD22	1.67	0.58
1:H:249:LEU:HB2	1:H:374:ILE:HD12	1.85	0.58
1:K:286:PHE:HB3	1:K:364:LEU:HD13	1.84	0.58
1:L:435:LEU:HD21	1:L:736:LEU:HD12	1.85	0.58
1:P:352:LEU:HD21	1:P:400:PHE:CE2	2.39	0.58
1:S:309:ARG:O	1:S:686:GLU:N	2.36	0.58
1:T:309:ARG:O	1:T:686:GLU:N	2.36	0.58
1:T:352:LEU:HD21	1:T:400:PHE:CE2	2.39	0.58
1:X:249:LEU:HB2	1:X:374:ILE:HD12	1.85	0.58
1:X:490:SER:HA	1:X:534:PHE:CB	2.27	0.58
1:Z:234:TRP:NE1	1:Z:297:ASP:OD1	2.35	0.58
1:c:496:ASN:O	1:e:459:GLN:NE2	2.37	0.58
1:j:391:ARG:NH1	1:z:705:TYR:CE1	2.72	0.58
1:k:234:TRP:NE1	1:k:297:ASP:OD1	2.35	0.58
1:k:249:LEU:HB2	1:k:374:ILE:HD12	1.85	0.58
1:o:418:GLU:OE2	1:o:641:LYS:N	2.35	0.58
1:t:559:MET:CG	1:t:726:PRO:CD	2.64	0.58
1:u:286:PHE:HB3	1:u:364:LEU:HD13	1.84	0.58
1:y:286:PHE:HB3	1:y:364:LEU:HD13	1.84	0.58
1:z:435:LEU:HD21	1:z:736:LEU:HD12	1.85	0.58
1:B:435:LEU:HD21	1:B:736:LEU:HD12	1.85	0.58
1:C:286:PHE:HB3	1:C:364:LEU:HD13	1.84	0.58
1:F:391:ARG:NH1	1:R:705:TYR:CE1	2.72	0.58
1:F:705:TYR:CE1	1:G:391:ARG:NH1	2.72	0.58
1:K:435:LEU:HD21	1:K:736:LEU:HD12	1.85	0.58
1:L:279:THR:OG1	1:L:377:TYR:O	2.16	0.58
1:L:418:GLU:OE2	1:L:641:LYS:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:707:LYS:CE	1:2:384:ASP:OD2	2.51	0.58
1:M:559:MET:HG2	1:M:726:PRO:CD	2.30	0.58
1:P:251:THR:HG21	1:P:255:HIS:CE1	2.39	0.58
1:P:279:THR:OG1	1:P:377:TYR:O	2.16	0.58
1:Q:352:LEU:HD21	1:Q:400:PHE:CE2	2.39	0.58
1:Q:559:MET:HG2	1:Q:726:PRO:CD	2.30	0.58
1:T:384:ASP:OD2	1:c:707:LYS:CE	2.52	0.58
1:T:391:ARG:NH1	1:c:705:TYR:CE1	2.72	0.58
1:Z:391:ARG:NH1	1:1:705:TYR:CE1	2.72	0.58
1:1:435:LEU:HD21	1:1:736:LEU:HD12	1.85	0.58
1:2:341:THR:HG1	1:2:652:THR:HG1	1.51	0.58
1:b:352:LEU:HD21	1:b:400:PHE:CE2	2.39	0.58
1:d:435:LEU:HD21	1:d:736:LEU:HD12	1.85	0.58
1:e:391:ARG:NH1	1:q:705:TYR:CE1	2.71	0.58
1:f:352:LEU:HD21	1:f:400:PHE:CE2	2.39	0.58
1:g:249:LEU:HB2	1:g:374:ILE:HD12	1.85	0.58
1:g:418:GLU:OE2	1:g:641:LYS:N	2.35	0.58
1:j:705:TYR:CE1	1:k:391:ARG:NH1	2.72	0.58
1:n:391:ARG:NH1	1:s:705:TYR:CE1	2.72	0.58
1:o:435:LEU:HD21	1:o:736:LEU:HD12	1.85	0.58
1:p:435:LEU:HD21	1:p:736:LEU:HD12	1.85	0.58
1:q:279:THR:OG1	1:q:377:TYR:O	2.16	0.58
1:t:391:ARG:NH1	1:x:705:TYR:CE1	2.72	0.58
1:u:490:SER:HA	1:u:534:PHE:CB	2.27	0.58
1:w:490:SER:HA	1:w:534:PHE:CB	2.28	0.58
1:z:286:PHE:HB3	1:z:364:LEU:HD13	1.84	0.58
1:F:435:LEU:HD21	1:F:736:LEU:HD12	1.85	0.58
1:F:707:LYS:CE	1:G:384:ASP:OD2	2.51	0.58
1:H:234:TRP:NE1	1:H:297:ASP:OD1	2.35	0.58
1:H:391:ARG:NH1	1:Z:705:TYR:CE1	2.72	0.58
1:H:705:TYR:CE1	1:I:391:ARG:NH1	2.72	0.58
1:H:707:LYS:CE	1:I:384:ASP:OD2	2.52	0.58
1:I:705:TYR:CE1	1:J:391:ARG:NH1	2.72	0.58
1:J:695:TRP:HZ2	1:K:721:TYR:HH	1.51	0.58
1:K:705:TYR:CE1	1:L:391:ARG:NH1	2.72	0.58
1:S:352:LEU:HD21	1:S:400:PHE:CE2	2.39	0.58
1:U:299:GLN:OE1	1:V:698:GLU:N	2.37	0.58
1:X:705:TYR:CE1	1:Y:391:ARG:NH1	2.71	0.58
1:Y:707:LYS:CE	1:x:384:ASP:OD2	2.52	0.58
1:Z:384:ASP:OD2	1:1:707:LYS:CE	2.52	0.58
1:1:251:THR:HG21	1:1:255:HIS:CE1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:521:GLY:O	1:1:634:LEU:HD22	2.04	0.58
1:3:352:LEU:HD21	1:3:400:PHE:CE2	2.39	0.58
1:3:436:MET:CE	1:3:471:MET:HG2	2.27	0.58
1:4:418:GLU:OE2	1:4:641:LYS:N	2.35	0.58
1:c:559:MET:HG2	1:c:726:PRO:CD	2.30	0.58
1:h:249:LEU:HB2	1:h:374:ILE:HD12	1.84	0.58
1:j:384:ASP:OD2	1:z:707:LYS:CE	2.52	0.58
1:k:705:TYR:CE1	1:s:391:ARG:NH1	2.72	0.58
1:k:707:LYS:CE	1:s:384:ASP:OD2	2.52	0.58
1:n:251:THR:HG21	1:n:255:HIS:CE1	2.39	0.58
1:q:400:PHE:CD1	1:s:693:LYS:HE2	2.38	0.58
1:w:563:GLU:OE2	1:w:613:TYR:OH	2.17	0.58
1:w:705:TYR:CE1	1:8:391:ARG:NH1	2.71	0.58
1:y:435:LEU:HD21	1:y:736:LEU:HD12	1.85	0.58
1:z:521:GLY:O	1:z:634:LEU:HD22	2.04	0.58
1:B:698:GLU:N	1:I:299:GLN:OE1	2.37	0.57
1:C:400:PHE:CD1	1:M:693:LYS:HE2	2.38	0.57
1:C:521:GLY:O	1:C:634:LEU:HD22	2.04	0.57
1:K:707:LYS:CE	1:L:384:ASP:OD2	2.52	0.57
1:R:391:ARG:NH1	1:V:705:TYR:CE1	2.72	0.57
1:W:299:GLN:OE1	1:X:698:GLU:N	2.37	0.57
1:X:418:GLU:OE2	1:X:641:LYS:N	2.35	0.57
1:Y:695:TRP:HZ2	1:Z:721:TYR:HH	1.52	0.57
1:1:286:PHE:HB3	1:1:364:LEU:HD13	1.84	0.57
1:2:352:LEU:HD21	1:2:400:PHE:CE2	2.39	0.57
1:2:521:GLY:O	1:2:634:LEU:HD22	2.04	0.57
1:3:309:ARG:NH2	1:3:686:GLU:OE1	2.27	0.57
1:3:384:ASP:OD2	1:m:707:LYS:CE	2.52	0.57
1:4:299:GLN:OE1	1:h:698:GLU:N	2.37	0.57
1:b:251:THR:HG21	1:b:255:HIS:CE1	2.40	0.57
1:c:299:GLN:OE1	1:f:698:GLU:N	2.37	0.57
1:c:352:LEU:HD21	1:c:400:PHE:CE2	2.39	0.57
1:f:249:LEU:HB2	1:f:374:ILE:HD12	1.85	0.57
1:g:698:GLU:N	1:l:299:GLN:OE1	2.37	0.57
1:g:705:TYR:CE1	1:m:391:ARG:NH1	2.71	0.57
1:i:590:GLN:HA	1:j:497:ASN:HD22	1.67	0.57
1:i:695:TRP:HZ2	1:z:721:TYR:HH	1.51	0.57
1:m:234:TRP:NE1	1:m:297:ASP:OD1	2.35	0.57
1:m:352:LEU:HD21	1:m:400:PHE:CE2	2.39	0.57
1:o:279:THR:OG1	1:o:377:TYR:O	2.16	0.57
1:o:707:LYS:CE	1:v:384:ASP:OD2	2.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:286:PHE:HB3	1:p:364:LEU:HD13	1.84	0.57
1:t:559:MET:HG2	1:t:726:PRO:CD	2.30	0.57
1:v:352:LEU:HD21	1:v:400:PHE:CE2	2.39	0.57
1:v:521:GLY:O	1:v:634:LEU:HD22	2.04	0.57
1:w:521:GLY:O	1:w:634:LEU:HD22	2.04	0.57
1:y:693:LYS:HE2	1:z:400:PHE:CD1	2.38	0.57
1:z:251:THR:HG21	1:z:255:HIS:CE1	2.39	0.57
1:z:341:THR:HG1	1:z:652:THR:HG1	1.50	0.57
1:8:352:LEU:HD21	1:8:400:PHE:CE2	2.39	0.57
1:8:435:LEU:HD21	1:8:736:LEU:HD12	1.85	0.57
1:A:459:GLN:NE2	1:G:496:ASN:O	2.38	0.57
1:F:249:LEU:HB2	1:F:374:ILE:HD12	1.85	0.57
1:G:521:GLY:O	1:G:634:LEU:HD22	2.04	0.57
1:H:379:TYR:OH	1:H:395:TYR:N	2.30	0.57
1:J:251:THR:HG21	1:J:255:HIS:CE1	2.40	0.57
1:J:521:GLY:O	1:J:634:LEU:HD22	2.04	0.57
1:K:693:LYS:HE2	1:1:400:PHE:CD1	2.38	0.57
1:L:251:THR:HG21	1:L:255:HIS:CE1	2.40	0.57
1:M:251:THR:HG21	1:M:255:HIS:CE1	2.39	0.57
1:M:435:LEU:HD21	1:M:736:LEU:HD12	1.85	0.57
1:O:341:THR:HG1	1:O:652:THR:HG1	1.51	0.57
1:O:391:ARG:NH1	1:4:705:TYR:CE1	2.71	0.57
1:P:418:GLU:OE2	1:P:641:LYS:N	2.35	0.57
1:Q:299:GLN:OE1	1:R:698:GLU:N	2.37	0.57
1:R:249:LEU:HB2	1:R:374:ILE:HD12	1.85	0.57
1:U:418:GLU:OE2	1:U:641:LYS:N	2.35	0.57
1:V:249:LEU:HB2	1:V:374:ILE:HD12	1.85	0.57
1:Y:234:TRP:NE1	1:Y:297:ASP:OD1	2.35	0.57
1:Y:352:LEU:HD21	1:Y:400:PHE:CE2	2.39	0.57
1:3:521:GLY:O	1:3:634:LEU:HD22	2.04	0.57
1:5:521:GLY:O	1:5:634:LEU:HD22	2.04	0.57
1:5:705:TYR:CE1	1:b:391:ARG:NH1	2.71	0.57
1:d:249:LEU:HB2	1:d:374:ILE:HD12	1.85	0.57
1:d:279:THR:OG1	1:d:377:TYR:O	2.16	0.57
1:d:736:LEU:HB3	1:e:623:PRO:HB3	1.86	0.57
1:e:352:LEU:HD21	1:e:400:PHE:CE2	2.39	0.57
1:e:490:SER:HA	1:e:534:PHE:CB	2.28	0.57
1:f:391:ARG:NH1	1:h:705:TYR:CE1	2.72	0.57
1:i:490:SER:HA	1:i:534:PHE:CB	2.27	0.57
1:i:521:GLY:O	1:i:634:LEU:HD22	2.04	0.57
1:j:435:LEU:HD21	1:j:736:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:251:THR:HG21	1:o:255:HIS:CE1	2.39	0.57
1:o:391:ARG:NH1	1:y:705:TYR:CE1	2.72	0.57
1:p:698:GLU:N	1:s:299:GLN:OE1	2.37	0.57
1:x:352:LEU:HD21	1:x:400:PHE:CE2	2.39	0.57
1:x:436:MET:CE	1:x:471:MET:HG2	2.27	0.57
1:x:521:GLY:O	1:x:634:LEU:HD22	2.04	0.57
1:A:400:PHE:CD1	1:I:693:LYS:HE2	2.38	0.57
1:D:695:TRP:HZ2	1:M:721:TYR:HH	1.50	0.57
1:E:352:LEU:HD21	1:E:400:PHE:CE2	2.39	0.57
1:J:435:LEU:HD21	1:J:736:LEU:HD12	1.85	0.57
1:K:251:THR:HG21	1:K:255:HIS:CE1	2.39	0.57
1:M:559:MET:CG	1:M:726:PRO:CD	2.64	0.57
1:O:521:GLY:O	1:O:634:LEU:HD22	2.04	0.57
1:O:705:TYR:CE1	1:P:391:ARG:NH1	2.71	0.57
1:U:251:THR:HG21	1:U:255:HIS:CE1	2.39	0.57
1:U:521:GLY:O	1:U:634:LEU:HD22	2.04	0.57
1:U:705:TYR:CE1	1:5:391:ARG:NH1	2.72	0.57
1:X:554:ASP:OD1	1:5:462:LYS:NZ	2.26	0.57
1:Z:352:LEU:HD21	1:Z:400:PHE:CE2	2.39	0.57
1:4:251:THR:HG21	1:4:255:HIS:CE1	2.39	0.57
1:5:707:LYS:CE	1:b:384:ASP:OD2	2.51	0.57
1:6:554:ASP:OD1	1:a:462:LYS:NZ	2.26	0.57
1:a:400:PHE:CD1	1:b:693:LYS:HE2	2.38	0.57
1:c:521:GLY:O	1:c:634:LEU:HD22	2.04	0.57
1:g:490:SER:HA	1:g:534:PHE:CB	2.27	0.57
1:j:286:PHE:HB3	1:j:364:LEU:HD13	1.84	0.57
1:n:521:GLY:O	1:n:634:LEU:HD22	2.04	0.57
1:p:279:THR:OG1	1:p:377:TYR:O	2.16	0.57
1:p:352:LEU:HD21	1:p:400:PHE:CE2	2.39	0.57
1:p:418:GLU:OE2	1:p:641:LYS:N	2.35	0.57
1:r:521:GLY:O	1:r:634:LEU:HD22	2.04	0.57
1:t:251:THR:HG21	1:t:255:HIS:CE1	2.39	0.57
1:u:521:GLY:O	1:u:634:LEU:HD22	2.04	0.57
1:y:251:THR:HG21	1:y:255:HIS:CE1	2.39	0.57
1:y:418:GLU:OE2	1:y:641:LYS:N	2.35	0.57
1:y:521:GLY:O	1:y:634:LEU:HD22	2.04	0.57
1:7:352:LEU:HD21	1:7:400:PHE:CE2	2.39	0.57
1:7:435:LEU:HD21	1:7:736:LEU:HD12	1.85	0.57
1:8:309:ARG:O	1:8:686:GLU:N	2.36	0.57
1:B:352:LEU:HD21	1:B:400:PHE:CE2	2.39	0.57
1:C:251:THR:HG21	1:C:255:HIS:CE1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:400:PHE:CD1	1:P:693:LYS:HE2	2.38	0.57
1:D:521:GLY:O	1:D:634:LEU:HD22	2.04	0.57
1:G:490:SER:HA	1:G:534:PHE:CB	2.27	0.57
1:G:705:TYR:CE1	1:W:391:ARG:NH1	2.72	0.57
1:K:431:SER:HA	1:K:568:THR:HB	1.87	0.57
1:K:521:GLY:O	1:K:634:LEU:HD22	2.04	0.57
1:Q:521:GLY:O	1:Q:634:LEU:HD22	2.04	0.57
1:S:521:GLY:O	1:S:634:LEU:HD22	2.04	0.57
1:W:309:ARG:O	1:W:686:GLU:N	2.36	0.57
1:3:251:THR:HG21	1:3:255:HIS:CE1	2.39	0.57
1:4:521:GLY:O	1:4:634:LEU:HD22	2.04	0.57
1:4:599:GLN:OE1	1:f:598:ASN:ND2	2.38	0.57
1:5:299:GLN:OE1	1:6:698:GLU:N	2.37	0.57
1:b:418:GLU:OE2	1:b:641:LYS:N	2.35	0.57
1:i:299:GLN:OE1	1:z:698:GLU:N	2.37	0.57
1:j:352:LEU:HD21	1:j:400:PHE:CE2	2.39	0.57
1:l:391:ARG:NH1	1:r:705:TYR:CE1	2.72	0.57
1:n:435:LEU:HD21	1:n:736:LEU:HD12	1.85	0.57
1:o:384:ASP:OD2	1:y:707:LYS:CE	2.52	0.57
1:q:435:LEU:HD21	1:q:736:LEU:HD12	1.85	0.57
1:r:309:ARG:O	1:r:686:GLU:N	2.36	0.57
1:t:693:LYS:HE2	1:u:400:PHE:CD1	2.38	0.57
1:u:251:THR:HG21	1:u:255:HIS:CE1	2.39	0.57
1:w:352:LEU:HD21	1:w:400:PHE:CE2	2.39	0.57
1:x:251:THR:HG21	1:x:255:HIS:CE1	2.40	0.57
1:A:435:LEU:HD21	1:A:736:LEU:HD12	1.85	0.57
1:B:286:PHE:HB3	1:B:364:LEU:HD13	1.85	0.57
1:C:379:TYR:OH	1:C:395:TYR:N	2.30	0.57
1:C:434:ARG:CD	1:C:471:MET:SD	2.93	0.57
1:E:234:TRP:NE1	1:E:297:ASP:OD1	2.35	0.57
1:F:279:THR:OG1	1:F:377:TYR:O	2.16	0.57
1:G:309:ARG:O	1:G:686:GLU:N	2.36	0.57
1:H:431:SER:HA	1:H:568:THR:HB	1.87	0.57
1:I:279:THR:OG1	1:I:377:TYR:O	2.16	0.57
1:K:418:GLU:OE2	1:K:641:LYS:N	2.35	0.57
1:K:658:PRO:HG2	1:7:250:PRO:HB3	1.87	0.57
1:N:698:GLU:N	1:O:299:GLN:OE1	2.37	0.57
1:O:554:ASP:OD1	1:h:462:LYS:NZ	2.26	0.57
1:O:707:LYS:CE	1:P:384:ASP:OD2	2.51	0.57
1:P:400:PHE:CD1	1:P:400:PHE:N	2.73	0.57
1:P:435:LEU:HD21	1:P:736:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:234:TRP:NE1	1:R:297:ASP:OD1	2.35	0.57
1:R:598:ASN:ND2	1:U:599:GLN:OE1	2.38	0.57
1:U:400:PHE:CD1	1:U:400:PHE:N	2.73	0.57
1:V:521:GLY:O	1:V:634:LEU:HD22	2.04	0.57
1:W:434:ARG:CD	1:W:471:MET:SD	2.93	0.57
1:Z:286:PHE:HB3	1:Z:364:LEU:HD13	1.84	0.57
1:1:459:GLN:NE2	1:8:496:ASN:O	2.38	0.57
1:2:251:THR:HG21	1:2:255:HIS:CE1	2.39	0.57
1:3:434:ARG:CD	1:3:471:MET:SD	2.93	0.57
1:4:400:PHE:CD1	1:4:400:PHE:N	2.73	0.57
1:b:234:TRP:NE1	1:b:297:ASP:OD1	2.35	0.57
1:b:341:THR:HG1	1:b:652:THR:HG1	1.49	0.57
1:d:431:SER:HA	1:d:568:THR:HB	1.87	0.57
1:e:234:TRP:NE1	1:e:297:ASP:OD1	2.35	0.57
1:f:234:TRP:NE1	1:f:297:ASP:OD1	2.35	0.57
1:h:521:GLY:O	1:h:634:LEU:HD22	2.04	0.57
1:k:431:SER:HA	1:k:568:THR:HB	1.87	0.57
1:k:521:GLY:O	1:k:634:LEU:HD22	2.04	0.57
1:l:309:ARG:O	1:l:686:GLU:N	2.36	0.57
1:l:521:GLY:O	1:l:634:LEU:HD22	2.04	0.57
1:q:251:THR:HG21	1:q:255:HIS:CE1	2.39	0.57
1:s:279:THR:OG1	1:s:377:TYR:O	2.16	0.57
1:u:434:ARG:CD	1:u:471:MET:SD	2.93	0.57
1:v:251:THR:HG21	1:v:255:HIS:CE1	2.39	0.57
1:v:436:MET:CE	1:v:471:MET:HG2	2.27	0.57
1:y:431:SER:HA	1:y:568:THR:HB	1.87	0.57
1:y:658:PRO:HG2	1:8:250:PRO:HB3	1.87	0.57
1:7:309:ARG:O	1:7:686:GLU:N	2.36	0.57
1:A:251:THR:HG21	1:A:255:HIS:CE1	2.39	0.57
1:B:251:THR:HG21	1:B:255:HIS:CE1	2.39	0.57
1:B:391:ARG:NH1	1:C:705:TYR:CE1	2.71	0.57
1:B:400:PHE:CD1	1:B:400:PHE:N	2.73	0.57
1:B:418:GLU:OE2	1:B:641:LYS:N	2.35	0.57
1:B:431:SER:HA	1:B:568:THR:HB	1.87	0.57
1:D:496:ASN:O	1:P:459:GLN:NE2	2.38	0.57
1:E:459:GLN:NE2	1:Q:496:ASN:O	2.38	0.57
1:E:490:SER:HA	1:E:534:PHE:CB	2.28	0.57
1:F:598:ASN:ND2	1:Q:599:GLN:OE1	2.38	0.57
1:G:431:SER:HA	1:G:568:THR:HB	1.87	0.57
1:H:352:LEU:HD21	1:H:400:PHE:CE2	2.39	0.57
1:H:459:GLN:NE2	1:W:496:ASN:O	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:521:GLY:O	1:H:634:LEU:HD22	2.04	0.57
1:I:251:THR:HG21	1:I:255:HIS:CE1	2.39	0.57
1:I:352:LEU:HD21	1:I:400:PHE:CE2	2.39	0.57
1:K:352:LEU:HD21	1:K:400:PHE:CE2	2.38	0.57
1:M:434:ARG:CD	1:M:471:MET:SD	2.93	0.57
1:R:521:GLY:O	1:R:634:LEU:HD22	2.04	0.57
1:S:431:SER:HA	1:S:568:THR:HB	1.87	0.57
1:S:435:LEU:HD21	1:S:736:LEU:HD12	1.85	0.57
1:T:431:SER:HA	1:T:568:THR:HB	1.87	0.57
1:T:436:MET:CE	1:T:471:MET:HG2	2.27	0.57
1:U:436:MET:CE	1:U:471:MET:HG2	2.27	0.57
1:U:490:SER:HA	1:U:534:PHE:CB	2.27	0.57
1:V:418:GLU:OE2	1:V:641:LYS:N	2.35	0.57
1:W:234:TRP:NE1	1:W:297:ASP:OD1	2.35	0.57
1:X:434:ARG:CD	1:X:471:MET:SD	2.93	0.57
1:Y:698:GLU:N	1:Z:299:GLN:OE1	2.37	0.57
1:Z:251:THR:HG21	1:Z:255:HIS:CE1	2.39	0.57
1:Z:435:LEU:HD21	1:Z:736:LEU:HD12	1.85	0.57
1:1:309:ARG:NH2	1:1:686:GLU:OE1	2.27	0.57
1:2:279:THR:OG1	1:2:377:TYR:O	2.16	0.57
1:2:309:ARG:O	1:2:686:GLU:N	2.36	0.57
1:4:234:TRP:NE1	1:4:297:ASP:OD1	2.35	0.57
1:5:418:GLU:OE2	1:5:641:LYS:N	2.35	0.57
1:a:521:GLY:O	1:a:634:LEU:HD22	2.04	0.57
1:b:400:PHE:CD1	1:b:400:PHE:N	2.73	0.57
1:b:435:LEU:HD21	1:b:736:LEU:HD12	1.85	0.57
1:g:434:ARG:CD	1:g:471:MET:SD	2.93	0.57
1:h:286:PHE:HB3	1:h:364:LEU:HD13	1.84	0.57
1:i:251:THR:HG21	1:i:255:HIS:CE1	2.39	0.57
1:i:352:LEU:HD21	1:i:400:PHE:CE2	2.39	0.57
1:j:299:GLN:OE1	1:m:698:GLU:N	2.37	0.57
1:k:352:LEU:HD21	1:k:400:PHE:CE2	2.39	0.57
1:k:459:GLN:NE2	1:l:496:ASN:O	2.38	0.57
1:l:234:TRP:NE1	1:l:297:ASP:OD1	2.35	0.57
1:l:434:ARG:CD	1:l:471:MET:SD	2.93	0.57
1:p:251:THR:HG21	1:p:255:HIS:CE1	2.39	0.57
1:p:431:SER:HA	1:p:568:THR:HB	1.87	0.57
1:r:431:SER:HA	1:r:568:THR:HB	1.87	0.57
1:s:352:LEU:HD21	1:s:400:PHE:CE2	2.39	0.57
1:t:434:ARG:CD	1:t:471:MET:SD	2.93	0.57
1:t:435:LEU:HD21	1:t:736:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:490:SER:HA	1:v:534:PHE:CB	2.27	0.57
1:w:251:THR:HG21	1:w:255:HIS:CE1	2.39	0.57
1:w:707:LYS:CE	1:8:384:ASP:OD2	2.50	0.57
1:x:434:ARG:CD	1:x:471:MET:SD	2.93	0.57
1:x:524:MET:HG3	1:x:573:ALA:HB2	1.87	0.57
1:x:559:MET:HG2	1:x:726:PRO:CD	2.30	0.57
1:y:249:LEU:HB2	1:y:374:ILE:HD12	1.85	0.57
1:y:352:LEU:HD21	1:y:400:PHE:CE2	2.38	0.57
1:z:459:GLN:NE2	1:7:496:ASN:O	2.38	0.57
1:A:707:LYS:CE	1:E:384:ASP:OD2	2.53	0.57
1:B:521:GLY:O	1:B:634:LEU:HD22	2.04	0.57
1:C:462:LYS:NZ	1:2:554:ASP:OD1	2.26	0.57
1:E:251:THR:HG21	1:E:255:HIS:CE1	2.39	0.57
1:K:234:TRP:NE1	1:K:297:ASP:OD1	2.35	0.57
1:K:309:ARG:O	1:K:686:GLU:N	2.36	0.57
1:M:524:MET:HG3	1:M:573:ALA:HB2	1.87	0.57
1:N:434:ARG:CD	1:N:471:MET:SD	2.93	0.57
1:O:418:GLU:OE2	1:O:641:LYS:N	2.35	0.57
1:T:521:GLY:O	1:T:634:LEU:HD22	2.04	0.57
1:V:462:LYS:NZ	1:5:554:ASP:OD1	2.26	0.57
1:W:435:LEU:HD21	1:W:736:LEU:HD12	1.85	0.57
1:W:521:GLY:O	1:W:634:LEU:HD22	2.04	0.57
1:X:234:TRP:NE1	1:X:297:ASP:OD1	2.35	0.57
1:Z:431:SER:HA	1:Z:568:THR:HB	1.87	0.57
1:1:698:GLU:N	1:w:299:GLN:OE1	2.37	0.57
1:3:524:MET:HG3	1:3:573:ALA:HB2	1.87	0.57
1:3:559:MET:HG2	1:3:726:PRO:CD	2.30	0.57
1:6:434:ARG:CD	1:6:471:MET:SD	2.93	0.57
1:c:400:PHE:CD1	1:c:400:PHE:N	2.73	0.57
1:d:599:GLN:OE1	1:e:598:ASN:ND2	2.36	0.57
1:e:251:THR:HG21	1:e:255:HIS:CE1	2.39	0.57
1:f:521:GLY:O	1:f:634:LEU:HD22	2.04	0.57
1:g:234:TRP:NE1	1:g:297:ASP:OD1	2.35	0.57
1:j:251:THR:HG21	1:j:255:HIS:CE1	2.39	0.57
1:j:431:SER:HA	1:j:568:THR:HB	1.87	0.57
1:l:435:LEU:HD21	1:l:736:LEU:HD12	1.85	0.57
1:n:598:ASN:ND2	1:p:599:GLN:OE1	2.37	0.57
1:p:400:PHE:CD1	1:p:400:PHE:N	2.73	0.57
1:q:459:GLN:NE2	1:r:496:ASN:O	2.38	0.57
1:r:459:GLN:NE2	1:s:496:ASN:O	2.38	0.57
1:r:490:SER:HA	1:r:534:PHE:CB	2.27	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:251:THR:HG21	1:s:255:HIS:CE1	2.39	0.57
1:t:524:MET:HG3	1:t:573:ALA:HB2	1.87	0.57
1:v:279:THR:OG1	1:v:377:TYR:O	2.16	0.57
1:v:309:ARG:O	1:v:686:GLU:N	2.36	0.57
1:v:524:MET:HG3	1:v:573:ALA:HB2	1.87	0.57
1:y:391:ARG:NH1	1:8:705:TYR:CE1	2.72	0.57
1:y:599:GLN:OE1	1:z:598:ASN:ND2	2.38	0.57
1:7:251:THR:HG21	1:7:255:HIS:CE1	2.40	0.57
1:7:521:GLY:O	1:7:634:LEU:HD22	2.04	0.57
1:8:251:THR:HG21	1:8:255:HIS:CE1	2.39	0.57
1:8:431:SER:HA	1:8:568:THR:HB	1.87	0.57
1:B:279:THR:OG1	1:B:377:TYR:O	2.16	0.57
1:B:436:MET:CE	1:B:471:MET:HG2	2.27	0.57
1:E:434:ARG:CD	1:E:471:MET:SD	2.93	0.57
1:E:435:LEU:HD21	1:E:736:LEU:HD12	1.85	0.57
1:F:431:SER:HA	1:F:568:THR:HB	1.87	0.57
1:G:459:GLN:NE2	1:I:496:ASN:O	2.38	0.57
1:K:249:LEU:HB2	1:K:374:ILE:HD12	1.85	0.57
1:K:524:MET:HG3	1:K:573:ALA:HB2	1.87	0.57
1:K:599:GLN:OE1	1:1:598:ASN:ND2	2.38	0.57
1:M:496:ASN:O	1:2:459:GLN:NE2	2.38	0.57
1:O:251:THR:HG21	1:O:255:HIS:CE1	2.39	0.57
1:P:434:ARG:CD	1:P:471:MET:SD	2.93	0.57
1:P:705:TYR:CE1	1:Q:391:ARG:NH1	2.72	0.57
1:R:431:SER:HA	1:R:568:THR:HB	1.87	0.57
1:T:435:LEU:HD21	1:T:736:LEU:HD12	1.85	0.57
1:V:286:PHE:HB3	1:V:364:LEU:HD13	1.84	0.57
1:X:524:MET:HG3	1:X:573:ALA:HB2	1.87	0.57
1:Y:251:THR:HG21	1:Y:255:HIS:CE1	2.39	0.57
1:Z:434:ARG:CD	1:Z:471:MET:SD	2.93	0.57
1:2:435:LEU:HD21	1:2:736:LEU:HD12	1.85	0.57
1:2:524:MET:HG3	1:2:573:ALA:HB2	1.87	0.57
1:5:251:THR:HG21	1:5:255:HIS:CE1	2.39	0.57
1:a:496:ASN:O	1:b:459:GLN:NE2	2.38	0.57
1:b:524:MET:HG3	1:b:573:ALA:HB2	1.87	0.57
1:g:431:SER:HA	1:g:568:THR:HB	1.87	0.57
1:i:705:TYR:CE1	1:7:391:ARG:NH1	2.71	0.57
1:j:434:ARG:CD	1:j:471:MET:SD	2.93	0.57
1:p:521:GLY:O	1:p:634:LEU:HD22	2.04	0.57
1:r:251:THR:HG21	1:r:255:HIS:CE1	2.39	0.57
1:r:693:LYS:HE2	1:s:400:PHE:CD1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:496:ASN:O	1:v:459:GLN:NE2	2.38	0.57
1:t:554:ASP:OD1	1:v:462:LYS:NZ	2.25	0.57
1:u:309:ARG:O	1:u:686:GLU:N	2.36	0.57
1:v:435:LEU:HD21	1:v:736:LEU:HD12	1.85	0.57
1:w:434:ARG:CD	1:w:471:MET:SD	2.93	0.57
1:y:234:TRP:NE1	1:y:297:ASP:OD1	2.35	0.57
1:y:524:MET:HG3	1:y:573:ALA:HB2	1.87	0.57
1:7:431:SER:HA	1:7:568:THR:HB	1.87	0.57
1:A:299:GLN:OE1	1:F:698:GLU:N	2.38	0.57
1:A:590:GLN:HA	1:G:497:ASN:ND2	2.20	0.57
1:B:599:GLN:OE1	1:J:598:ASN:ND2	2.38	0.57
1:G:693:LYS:HE2	1:I:400:PHE:CD1	2.38	0.57
1:K:391:ARG:NH1	1:7:705:TYR:CE1	2.72	0.57
1:M:554:ASP:OD1	1:2:462:LYS:NZ	2.25	0.57
1:N:435:LEU:HD21	1:N:736:LEU:HD12	1.85	0.57
1:P:234:TRP:NE1	1:P:297:ASP:OD1	2.35	0.57
1:P:524:MET:HG3	1:P:573:ALA:HB2	1.87	0.57
1:S:705:TYR:CE1	1:4:391:ARG:NH1	2.72	0.57
1:T:496:ASN:O	1:f:459:GLN:NE2	2.38	0.57
1:T:705:TYR:CE1	1:U:391:ARG:NH1	2.72	0.57
1:U:234:TRP:NE1	1:U:297:ASP:OD1	2.35	0.57
1:V:251:THR:HG21	1:V:255:HIS:CE1	2.40	0.57
1:V:459:GLN:NE2	1:5:496:ASN:O	2.38	0.57
1:W:251:THR:HG21	1:W:255:HIS:CE1	2.39	0.57
1:X:431:SER:HA	1:X:568:THR:HB	1.87	0.57
1:Z:497:ASN:HD22	1:w:590:GLN:HA	1.68	0.57
1:1:431:SER:HA	1:1:568:THR:HB	1.87	0.57
1:2:436:MET:CE	1:2:471:MET:HG2	2.27	0.57
1:3:435:LEU:HD21	1:3:736:LEU:HD12	1.85	0.57
1:6:391:ARG:NH1	1:t:705:TYR:CE1	2.71	0.57
1:6:435:LEU:HD21	1:6:736:LEU:HD12	1.85	0.57
1:b:434:ARG:CD	1:b:471:MET:SD	2.93	0.57
1:g:524:MET:HG3	1:g:573:ALA:HB2	1.87	0.57
1:m:251:THR:HG21	1:m:255:HIS:CE1	2.39	0.57
1:p:384:ASP:OD2	1:u:707:LYS:CE	2.51	0.57
1:p:391:ARG:NH1	1:u:705:TYR:CE1	2.72	0.57
1:u:379:TYR:OH	1:u:395:TYR:N	2.30	0.57
1:w:431:SER:HA	1:w:568:THR:HB	1.87	0.57
1:w:496:ASN:O	1:x:459:GLN:NE2	2.37	0.57
1:x:435:LEU:HD21	1:x:736:LEU:HD12	1.85	0.57
1:y:309:ARG:O	1:y:686:GLU:N	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:436:MET:CE	1:8:471:MET:HG2	2.27	0.57
1:A:705:TYR:CE1	1:E:391:ARG:NH1	2.73	0.57
1:B:496:ASN:O	1:L:459:GLN:NE2	2.38	0.57
1:D:431:SER:HA	1:D:568:THR:HB	1.87	0.57
1:F:521:GLY:O	1:F:634:LEU:HD22	2.04	0.57
1:G:251:THR:HG21	1:G:255:HIS:CE1	2.39	0.57
1:H:658:PRO:HG2	1:Z:250:PRO:HB3	1.87	0.57
1:I:250:PRO:HB3	1:J:658:PRO:HG2	1.87	0.57
1:J:434:ARG:CD	1:J:471:MET:SD	2.93	0.57
1:J:698:GLU:N	1:K:299:GLN:OE1	2.37	0.57
1:M:705:TYR:CE1	1:N:391:ARG:NH1	2.72	0.57
1:O:496:ASN:O	1:h:459:GLN:NE2	2.38	0.57
1:R:459:GLN:NE2	1:S:496:ASN:O	2.38	0.57
1:S:436:MET:CE	1:S:471:MET:HG2	2.27	0.57
1:Y:431:SER:HA	1:Y:568:THR:HB	1.87	0.57
1:4:436:MET:CE	1:4:471:MET:HG2	2.27	0.57
1:4:490:SER:HA	1:4:534:PHE:CB	2.27	0.57
1:6:384:ASP:OD2	1:t:707:LYS:CE	2.51	0.57
1:e:434:ARG:CD	1:e:471:MET:SD	2.93	0.57
1:f:431:SER:HA	1:f:568:THR:HB	1.87	0.57
1:g:251:THR:HG21	1:g:255:HIS:CE1	2.39	0.57
1:h:418:GLU:OE2	1:h:641:LYS:N	2.35	0.57
1:i:431:SER:HA	1:i:568:THR:HB	1.87	0.57
1:j:250:PRO:HB3	1:k:658:PRO:HG2	1.87	0.57
1:k:496:ASN:O	1:m:459:GLN:NE2	2.38	0.57
1:m:431:SER:HA	1:m:568:THR:HB	1.87	0.57
1:n:434:ARG:CD	1:n:471:MET:SD	2.93	0.57
1:t:459:GLN:NE2	1:u:496:ASN:O	2.38	0.57
1:z:309:ARG:NH2	1:z:686:GLU:OE1	2.27	0.57
1:z:431:SER:HA	1:z:568:THR:HB	1.87	0.57
1:8:521:GLY:O	1:8:634:LEU:HD22	2.04	0.57
1:B:384:ASP:OD2	1:C:707:LYS:CE	2.51	0.56
1:C:309:ARG:O	1:C:686:GLU:N	2.36	0.56
1:C:384:ASP:OD2	1:D:707:LYS:CE	2.51	0.56
1:C:496:ASN:O	1:M:459:GLN:NE2	2.38	0.56
1:D:251:THR:HG21	1:D:255:HIS:CE1	2.39	0.56
1:G:250:PRO:HB3	1:W:658:PRO:HG2	1.87	0.56
1:H:496:ASN:O	1:Y:459:GLN:NE2	2.38	0.56
1:K:496:ASN:O	1:8:459:GLN:NE2	2.38	0.56
1:N:599:GLN:OE1	1:P:598:ASN:ND2	2.38	0.56
1:O:524:MET:HG3	1:O:573:ALA:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:431:SER:HA	1:P:568:THR:HB	1.87	0.56
1:Q:250:PRO:HB3	1:S:658:PRO:HG2	1.87	0.56
1:R:251:THR:HG21	1:R:255:HIS:CE1	2.39	0.56
1:V:658:PRO:HG2	1:W:250:PRO:HB3	1.87	0.56
1:X:250:PRO:HB3	1:Y:658:PRO:HG2	1.87	0.56
1:X:251:THR:HG21	1:X:255:HIS:CE1	2.39	0.56
1:X:598:ASN:ND2	1:5:599:GLN:OE1	2.38	0.56
1:3:400:PHE:CD1	1:3:400:PHE:N	2.73	0.56
1:4:524:MET:HG3	1:4:573:ALA:HB2	1.87	0.56
1:5:524:MET:HG3	1:5:573:ALA:HB2	1.87	0.56
1:a:251:THR:HG21	1:a:255:HIS:CE1	2.39	0.56
1:b:431:SER:HA	1:b:568:THR:HB	1.87	0.56
1:b:705:TYR:CE1	1:c:391:ARG:NH1	2.72	0.56
1:e:435:LEU:HD21	1:e:736:LEU:HD12	1.85	0.56
1:e:436:MET:CE	1:e:471:MET:HG2	2.27	0.56
1:f:251:THR:HG21	1:f:255:HIS:CE1	2.39	0.56
1:h:251:THR:HG21	1:h:255:HIS:CE1	2.40	0.56
1:h:524:MET:HG3	1:h:573:ALA:HB2	1.87	0.56
1:i:434:ARG:CD	1:i:471:MET:SD	2.93	0.56
1:m:524:MET:HG3	1:m:573:ALA:HB2	1.87	0.56
1:n:352:LEU:HD21	1:n:400:PHE:CE2	2.39	0.56
1:n:658:PRO:HG2	1:s:250:PRO:HB3	1.87	0.56
1:n:695:TRP:HZ2	1:y:721:TYR:HH	1.52	0.56
1:n:698:GLU:N	1:y:299:GLN:OE1	2.37	0.56
1:o:459:GLN:NE2	1:p:496:ASN:O	2.38	0.56
1:p:436:MET:CE	1:p:471:MET:HG2	2.27	0.56
1:q:379:TYR:OH	1:q:395:TYR:N	2.30	0.56
1:x:400:PHE:CD1	1:x:400:PHE:N	2.73	0.56
1:y:496:ASN:O	1:7:459:GLN:NE2	2.38	0.56
1:7:400:PHE:CD1	1:7:400:PHE:N	2.73	0.56
1:C:459:GLN:NE2	1:2:496:ASN:O	2.39	0.56
1:C:524:MET:HG3	1:C:573:ALA:HB2	1.87	0.56
1:D:459:GLN:NE2	1:N:496:ASN:O	2.38	0.56
1:D:599:GLN:OE1	1:N:598:ASN:ND2	2.38	0.56
1:N:309:ARG:O	1:N:686:GLU:N	2.36	0.56
1:N:418:GLU:OE2	1:N:641:LYS:N	2.35	0.56
1:N:431:SER:HA	1:N:568:THR:HB	1.87	0.56
1:O:599:GLN:OE1	1:g:598:ASN:ND2	2.38	0.56
1:Q:251:THR:HG21	1:Q:255:HIS:CE1	2.39	0.56
1:S:250:PRO:HB3	1:4:658:PRO:HG2	1.87	0.56
1:U:524:MET:HG3	1:U:573:ALA:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:524:MET:HG3	1:V:573:ALA:HB2	1.87	0.56
1:Y:524:MET:HG3	1:Y:573:ALA:HB2	1.87	0.56
1:Y:559:MET:HG2	1:Y:726:PRO:CD	2.30	0.56
1:2:490:SER:HA	1:2:534:PHE:CB	2.28	0.56
1:4:431:SER:HA	1:4:568:THR:HB	1.87	0.56
1:6:309:ARG:O	1:6:686:GLU:N	2.36	0.56
1:6:431:SER:HA	1:6:568:THR:HB	1.87	0.56
1:6:599:GLN:OE1	1:b:598:ASN:ND2	2.38	0.56
1:a:250:PRO:HB3	1:u:658:PRO:HG2	1.87	0.56
1:a:400:PHE:CD1	1:a:400:PHE:N	2.73	0.56
1:a:431:SER:HA	1:a:568:THR:HB	1.87	0.56
1:c:251:THR:HG21	1:c:255:HIS:CE1	2.39	0.56
1:d:521:GLY:O	1:d:634:LEU:HD22	2.04	0.56
1:h:658:PRO:HG2	1:l:250:PRO:HB3	1.87	0.56
1:l:251:THR:HG21	1:l:255:HIS:CE1	2.39	0.56
1:m:559:MET:HG2	1:m:726:PRO:CD	2.30	0.56
1:p:250:PRO:HB3	1:q:658:PRO:HG2	1.87	0.56
1:q:590:GLN:HA	1:r:497:ASN:ND2	2.21	0.56
1:s:234:TRP:NE1	1:s:297:ASP:OD1	2.35	0.56
1:t:234:TRP:NE1	1:t:297:ASP:OD1	2.35	0.56
1:u:435:LEU:HD21	1:u:736:LEU:HD12	1.85	0.56
1:7:434:ARG:CD	1:7:471:MET:SD	2.93	0.56
1:8:400:PHE:CD1	1:8:400:PHE:N	2.73	0.56
1:8:434:ARG:CD	1:8:471:MET:SD	2.93	0.56
1:A:521:GLY:O	1:A:634:LEU:HD22	2.04	0.56
1:B:299:GLN:OE1	1:I:698:GLU:N	2.37	0.56
1:B:462:LYS:NZ	1:J:554:ASP:OD1	2.26	0.56
1:C:658:PRO:HG2	1:D:250:PRO:HB3	1.87	0.56
1:D:391:ARG:NH1	1:E:705:TYR:CE1	2.72	0.56
1:D:400:PHE:CD1	1:D:400:PHE:N	2.73	0.56
1:D:434:ARG:CD	1:D:471:MET:SD	2.93	0.56
1:F:434:ARG:CD	1:F:471:MET:SD	2.93	0.56
1:H:384:ASP:OD2	1:Z:707:LYS:CE	2.52	0.56
1:I:234:TRP:NE1	1:I:297:ASP:OD1	2.35	0.56
1:I:431:SER:HA	1:I:568:THR:HB	1.87	0.56
1:I:521:GLY:O	1:I:634:LEU:HD22	2.04	0.56
1:J:352:LEU:HD21	1:J:400:PHE:CE2	2.39	0.56
1:J:524:MET:HG3	1:J:573:ALA:HB2	1.87	0.56
1:L:309:ARG:O	1:L:686:GLU:N	2.36	0.56
1:M:234:TRP:NE1	1:M:297:ASP:OD1	2.35	0.56
1:M:707:LYS:CE	1:N:384:ASP:OD2	2.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:250:PRO:HB3	1:g:658:PRO:HG2	1.87	0.56
1:N:459:GLN:NE2	1:P:496:ASN:O	2.39	0.56
1:O:279:THR:OG1	1:O:377:TYR:O	2.16	0.56
1:R:434:ARG:CD	1:R:471:MET:SD	2.93	0.56
1:S:459:GLN:NE2	1:U:496:ASN:O	2.38	0.56
1:T:250:PRO:HB3	1:U:658:PRO:HG2	1.87	0.56
1:T:459:GLN:NE2	1:4:496:ASN:O	2.38	0.56
1:T:658:PRO:HG2	1:c:250:PRO:HB3	1.88	0.56
1:U:250:PRO:HB3	1:5:658:PRO:HG2	1.87	0.56
1:U:431:SER:HA	1:U:568:THR:HB	1.87	0.56
1:V:431:SER:HA	1:V:568:THR:HB	1.87	0.56
1:W:431:SER:HA	1:W:568:THR:HB	1.87	0.56
1:X:521:GLY:O	1:X:634:LEU:HD22	2.04	0.56
1:X:658:PRO:HG2	1:6:250:PRO:HB3	1.87	0.56
1:Y:250:PRO:HB3	1:x:658:PRO:HG2	1.88	0.56
1:Y:521:GLY:O	1:Y:634:LEU:HD22	2.04	0.56
1:Z:521:GLY:O	1:Z:634:LEU:HD22	2.04	0.56
1:1:234:TRP:NE1	1:1:297:ASP:OD1	2.35	0.56
1:3:459:GLN:NE2	1:i:496:ASN:O	2.38	0.56
1:3:658:PRO:HG2	1:m:250:PRO:HB3	1.88	0.56
1:6:418:GLU:OE2	1:6:641:LYS:N	2.35	0.56
1:6:459:GLN:NE2	1:b:496:ASN:O	2.39	0.56
1:6:496:ASN:O	1:a:459:GLN:NE2	2.38	0.56
1:6:598:ASN:ND2	1:a:599:GLN:OE1	2.38	0.56
1:6:658:PRO:HG2	1:t:250:PRO:HB3	1.87	0.56
1:a:434:ARG:CD	1:a:471:MET:SD	2.93	0.56
1:a:658:PRO:HG2	1:e:250:PRO:HB3	1.87	0.56
1:a:707:LYS:CE	1:u:384:ASP:OD2	2.51	0.56
1:b:521:GLY:O	1:b:634:LEU:HD22	2.04	0.56
1:c:418:GLU:OE2	1:c:641:LYS:N	2.35	0.56
1:d:251:THR:HG21	1:d:255:HIS:CE1	2.39	0.56
1:d:434:ARG:CD	1:d:471:MET:SD	2.93	0.56
1:d:590:GLN:HA	1:e:497:ASN:ND2	2.19	0.56
1:e:309:ARG:O	1:e:686:GLU:N	2.36	0.56
1:e:658:PRO:HG2	1:q:250:PRO:HB3	1.87	0.56
1:f:434:ARG:CD	1:f:471:MET:SD	2.93	0.56
1:g:250:PRO:HB3	1:m:658:PRO:HG2	1.87	0.56
1:g:521:GLY:O	1:g:634:LEU:HD22	2.04	0.56
1:h:431:SER:HA	1:h:568:THR:HB	1.87	0.56
1:h:490:SER:HA	1:h:534:PHE:CB	2.27	0.56
1:j:521:GLY:O	1:j:634:LEU:HD22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:707:LYS:CE	1:k:384:ASP:OD2	2.51	0.56
1:k:599:GLN:OE1	1:l:598:ASN:ND2	2.38	0.56
1:l:658:PRO:HG2	1:r:250:PRO:HB3	1.87	0.56
1:m:521:GLY:O	1:m:634:LEU:HD22	2.04	0.56
1:o:698:GLU:N	1:u:299:GLN:OE1	2.36	0.56
1:p:299:GLN:OE1	1:s:698:GLU:N	2.37	0.56
1:q:434:ARG:CD	1:q:471:MET:SD	2.93	0.56
1:s:431:SER:HA	1:s:568:THR:HB	1.87	0.56
1:t:521:GLY:O	1:t:634:LEU:HD22	2.04	0.56
1:u:459:GLN:NE2	1:v:496:ASN:O	2.39	0.56
1:u:524:MET:HG3	1:u:573:ALA:HB2	1.87	0.56
1:A:379:TYR:OH	1:A:395:TYR:N	2.30	0.56
1:C:299:GLN:OE1	1:L:698:GLU:N	2.37	0.56
1:C:435:LEU:HD21	1:C:736:LEU:HD12	1.85	0.56
1:D:418:GLU:OE2	1:D:641:LYS:N	2.35	0.56
1:E:400:PHE:CD1	1:E:400:PHE:N	2.73	0.56
1:F:250:PRO:HB3	1:G:658:PRO:HG2	1.87	0.56
1:F:251:THR:HG21	1:F:255:HIS:CE1	2.39	0.56
1:M:521:GLY:O	1:M:634:LEU:HD22	2.04	0.56
1:O:658:PRO:HG2	1:4:250:PRO:HB3	1.87	0.56
1:P:521:GLY:O	1:P:634:LEU:HD22	2.04	0.56
1:Q:431:SER:HA	1:Q:568:THR:HB	1.87	0.56
1:T:251:THR:HG21	1:T:255:HIS:CE1	2.39	0.56
1:V:497:ASN:ND2	1:X:590:GLN:HA	2.21	0.56
1:W:459:GLN:NE2	1:Y:496:ASN:O	2.39	0.56
1:W:590:GLN:HA	1:Y:497:ASN:ND2	2.21	0.56
1:1:462:LYS:NZ	1:8:554:ASP:OD1	2.25	0.56
1:g:299:GLN:OE1	1:l:698:GLU:N	2.37	0.56
1:g:590:GLN:HA	1:h:497:ASN:ND2	2.21	0.56
1:i:309:ARG:O	1:i:686:GLU:N	2.36	0.56
1:k:698:GLU:N	1:r:299:GLN:OE1	2.37	0.56
1:l:459:GLN:NE2	1:m:496:ASN:O	2.39	0.56
1:l:590:GLN:HA	1:m:497:ASN:ND2	2.21	0.56
1:o:309:ARG:O	1:o:686:GLU:N	2.36	0.56
1:o:590:GLN:HA	1:p:497:ASN:ND2	2.21	0.56
1:u:462:LYS:NZ	1:v:554:ASP:OD1	2.26	0.56
1:z:234:TRP:NE1	1:z:297:ASP:OD1	2.35	0.56
1:z:462:LYS:NZ	1:7:554:ASP:OD1	2.25	0.56
1:A:434:ARG:CD	1:A:471:MET:SD	2.93	0.56
1:B:497:ASN:ND2	1:L:590:GLN:HA	2.21	0.56
1:E:309:ARG:O	1:E:686:GLU:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:436:MET:CE	1:E:471:MET:HG2	2.27	0.56
1:E:471:MET:N	1:Q:272:ASN:OD1	2.39	0.56
1:H:250:PRO:HB3	1:I:658:PRO:HG2	1.87	0.56
1:H:599:GLN:OE1	1:W:598:ASN:ND2	2.38	0.56
1:L:434:ARG:CD	1:L:471:MET:SD	2.93	0.56
1:Q:418:GLU:OE2	1:Q:641:LYS:N	2.35	0.56
1:S:707:LYS:CE	1:4:384:ASP:OD2	2.51	0.56
1:U:434:ARG:CD	1:U:471:MET:SD	2.93	0.56
1:U:721:TYR:HH	1:V:695:TRP:HZ2	1.54	0.56
1:W:698:GLU:N	1:X:299:GLN:OE1	2.37	0.56
1:X:272:ASN:OD1	1:5:471:MET:N	2.39	0.56
1:Z:379:TYR:OH	1:Z:395:TYR:N	2.30	0.56
1:1:590:GLN:HA	1:8:497:ASN:ND2	2.21	0.56
1:4:434:ARG:CD	1:4:471:MET:SD	2.93	0.56
1:5:309:ARG:O	1:5:686:GLU:N	2.36	0.56
1:a:418:GLU:OE2	1:a:641:LYS:N	2.35	0.56
1:b:250:PRO:HB3	1:c:658:PRO:HG2	1.87	0.56
1:c:431:SER:HA	1:c:568:THR:HB	1.87	0.56
1:e:400:PHE:CD1	1:e:400:PHE:N	2.73	0.56
1:k:250:PRO:HB3	1:s:658:PRO:HG2	1.87	0.56
1:k:563:GLU:OE2	1:k:613:TYR:OH	2.17	0.56
1:l:431:SER:HA	1:l:568:THR:HB	1.87	0.56
1:n:524:MET:HG3	1:n:573:ALA:HB2	1.87	0.56
1:o:434:ARG:CD	1:o:471:MET:SD	2.93	0.56
1:p:721:TYR:HH	1:s:695:TRP:HZ2	1.53	0.56
1:q:521:GLY:O	1:q:634:LEU:HD22	2.04	0.56
1:s:521:GLY:O	1:s:634:LEU:HD22	2.04	0.56
1:z:590:GLN:HA	1:7:497:ASN:ND2	2.21	0.56
1:z:599:GLN:OE1	1:7:598:ASN:ND2	2.38	0.56
1:A:250:PRO:HB3	1:E:658:PRO:HG2	1.88	0.56
1:A:279:THR:OG1	1:A:377:TYR:O	2.16	0.56
1:B:721:TYR:HH	1:I:695:TRP:HZ2	1.54	0.56
1:C:590:GLN:HA	1:2:497:ASN:ND2	2.21	0.56
1:E:521:GLY:O	1:E:634:LEU:HD22	2.04	0.56
1:E:524:MET:HG3	1:E:573:ALA:HB2	1.87	0.56
1:F:384:ASP:OD2	1:R:707:LYS:CE	2.52	0.56
1:H:251:THR:HG21	1:H:255:HIS:CE1	2.39	0.56
1:H:497:ASN:ND2	1:Y:590:GLN:HA	2.21	0.56
1:O:471:MET:N	1:g:272:ASN:OD1	2.39	0.56
1:P:250:PRO:HB3	1:Q:658:PRO:HG2	1.87	0.56
1:S:251:THR:HG21	1:S:255:HIS:CE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:490:SER:HA	1:V:534:PHE:CB	2.27	0.56
1:V:590:GLN:HA	1:5:497:ASN:ND2	2.21	0.56
1:1:599:GLN:OE1	1:8:598:ASN:ND2	2.38	0.56
1:1:721:TYR:HH	1:w:695:TRP:HZ2	1.53	0.56
1:2:234:TRP:NE1	1:2:297:ASP:OD1	2.35	0.56
1:2:431:SER:HA	1:2:568:THR:HB	1.87	0.56
1:6:521:GLY:O	1:6:634:LEU:HD22	2.04	0.56
1:b:698:GLU:N	1:e:299:GLN:OE1	2.37	0.56
1:k:418:GLU:OE2	1:k:641:LYS:N	2.35	0.56
1:k:497:ASN:ND2	1:m:590:GLN:HA	2.21	0.56
1:l:524:MET:HG3	1:l:573:ALA:HB2	1.87	0.56
1:n:496:ASN:O	1:p:459:GLN:NE2	2.38	0.56
1:n:554:ASP:OD1	1:p:462:LYS:NZ	2.26	0.56
1:o:521:GLY:O	1:o:634:LEU:HD22	2.04	0.56
1:r:379:TYR:OH	1:r:395:TYR:N	2.30	0.56
1:t:471:MET:N	1:u:272:ASN:OD1	2.39	0.56
1:u:599:GLN:OE1	1:v:598:ASN:ND2	2.37	0.56
1:v:431:SER:HA	1:v:568:THR:HB	1.87	0.56
1:w:309:ARG:O	1:w:686:GLU:N	2.36	0.56
1:x:431:SER:HA	1:x:568:THR:HB	1.87	0.56
1:8:524:MET:HG3	1:8:573:ALA:HB2	1.87	0.56
1:A:384:ASP:OD2	1:B:707:LYS:CE	2.51	0.56
1:A:497:ASN:ND2	1:I:590:GLN:HA	2.20	0.56
1:A:658:PRO:HG2	1:B:250:PRO:HB3	1.88	0.56
1:C:272:ASN:OD1	1:M:471:MET:N	2.39	0.56
1:D:658:PRO:HG2	1:E:250:PRO:HB3	1.87	0.56
1:E:496:ASN:O	1:F:459:GLN:NE2	2.38	0.56
1:F:496:ASN:O	1:Q:459:GLN:NE2	2.39	0.56
1:G:299:GLN:OE1	1:H:698:GLU:N	2.37	0.56
1:H:400:PHE:CD1	1:H:400:PHE:N	2.73	0.56
1:I:309:ARG:O	1:I:686:GLU:N	2.36	0.56
1:I:434:ARG:CD	1:I:471:MET:SD	2.93	0.56
1:J:459:GLN:NE2	1:L:496:ASN:O	2.38	0.56
1:L:521:GLY:O	1:L:634:LEU:HD22	2.04	0.56
1:N:251:THR:HG21	1:N:255:HIS:CE1	2.39	0.56
1:N:521:GLY:O	1:N:634:LEU:HD22	2.04	0.56
1:N:590:GLN:HA	1:P:497:ASN:ND2	2.21	0.56
1:O:497:ASN:ND2	1:h:590:GLN:HA	2.21	0.56
1:S:590:GLN:HA	1:U:497:ASN:ND2	2.21	0.56
1:T:590:GLN:HA	1:4:497:ASN:ND2	2.21	0.56
1:T:707:LYS:CE	1:U:384:ASP:OD2	2.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:524:MET:HG3	1:W:573:ALA:HB2	1.87	0.56
1:Z:400:PHE:CD1	1:Z:400:PHE:N	2.73	0.56
1:3:431:SER:HA	1:3:568:THR:HB	1.87	0.56
1:4:698:GLU:N	1:h:299:GLN:OE1	2.37	0.56
1:6:251:THR:HG21	1:6:255:HIS:CE1	2.39	0.56
1:6:590:GLN:HA	1:b:497:ASN:ND2	2.21	0.56
1:a:391:ARG:NH1	1:e:705:TYR:CE1	2.72	0.56
1:c:272:ASN:OD1	1:e:471:MET:N	2.39	0.56
1:d:705:TYR:OH	1:q:564:GLU:OE2	2.23	0.56
1:e:524:MET:HG3	1:e:573:ALA:HB2	1.87	0.56
1:i:459:GLN:NE2	1:j:496:ASN:O	2.39	0.56
1:i:707:LYS:CE	1:7:384:ASP:OD2	2.51	0.56
1:j:379:TYR:OH	1:j:395:TYR:N	2.29	0.56
1:k:251:THR:HG21	1:k:255:HIS:CE1	2.39	0.56
1:n:431:SER:HA	1:n:568:THR:HB	1.87	0.56
1:n:459:GLN:NE2	1:o:496:ASN:O	2.38	0.56
1:o:299:GLN:OE1	1:u:698:GLU:N	2.37	0.56
1:p:707:LYS:CE	1:q:384:ASP:OD2	2.51	0.56
1:s:434:ARG:CD	1:s:471:MET:SD	2.93	0.56
1:u:471:MET:N	1:v:272:ASN:OD1	2.38	0.56
1:u:590:GLN:HA	1:v:497:ASN:ND2	2.21	0.56
1:v:234:TRP:NE1	1:v:297:ASP:OD1	2.35	0.56
1:w:272:ASN:OD1	1:x:471:MET:N	2.38	0.56
1:7:379:TYR:OH	1:7:395:TYR:N	2.30	0.56
1:7:524:MET:HG3	1:7:573:ALA:HB2	1.87	0.56
1:A:431:SER:HA	1:A:568:THR:HB	1.87	0.56
1:B:272:ASN:OD1	1:L:471:MET:N	2.39	0.56
1:C:431:SER:HA	1:C:568:THR:HB	1.87	0.56
1:L:524:MET:HG3	1:L:573:ALA:HB2	1.87	0.56
1:M:250:PRO:HB3	1:N:658:PRO:HG2	1.87	0.56
1:M:658:PRO:HG2	1:3:250:PRO:HB3	1.87	0.56
1:O:309:ARG:O	1:O:686:GLU:N	2.36	0.56
1:R:524:MET:HG3	1:R:573:ALA:HB2	1.87	0.56
1:T:490:SER:HA	1:T:534:PHE:CB	2.27	0.56
1:T:598:ASN:ND2	1:f:599:GLN:OE1	2.38	0.56
1:V:434:ARG:CD	1:V:471:MET:SD	2.93	0.56
1:6:400:PHE:CD1	1:6:400:PHE:N	2.73	0.56
1:6:524:MET:HG3	1:6:573:ALA:HB2	1.87	0.56
1:a:309:ARG:O	1:a:686:GLU:N	2.36	0.56
1:c:721:TYR:HH	1:f:695:TRP:HZ2	1.53	0.56
1:d:524:MET:HG3	1:d:573:ALA:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:521:GLY:O	1:e:634:LEU:HD22	2.04	0.56
1:h:434:ARG:CD	1:h:471:MET:SD	2.93	0.56
1:q:490:SER:HA	1:q:534:PHE:CB	2.27	0.56
1:q:496:ASN:O	1:s:459:GLN:NE2	2.39	0.56
1:q:524:MET:HG3	1:q:573:ALA:HB2	1.87	0.56
1:s:309:ARG:O	1:s:686:GLU:N	2.36	0.56
1:v:400:PHE:CD1	1:v:400:PHE:N	2.73	0.56
1:A:524:MET:HG3	1:A:573:ALA:HB2	1.87	0.56
1:B:459:GLN:NE2	1:J:496:ASN:O	2.38	0.56
1:C:471:MET:N	1:2:272:ASN:OD1	2.39	0.56
1:C:698:GLU:N	1:L:299:GLN:OE1	2.37	0.56
1:D:234:TRP:NE1	1:D:297:ASP:OD1	2.35	0.56
1:D:309:ARG:O	1:D:686:GLU:N	2.36	0.56
1:E:299:GLN:OE1	1:P:698:GLU:N	2.37	0.56
1:F:524:MET:HG3	1:F:573:ALA:HB2	1.87	0.56
1:G:379:TYR:OH	1:G:395:TYR:N	2.30	0.56
1:N:524:MET:HG3	1:N:573:ALA:HB2	1.87	0.56
1:P:707:LYS:CE	1:Q:384:ASP:OD2	2.52	0.56
1:Q:434:ARG:CD	1:Q:471:MET:SD	2.93	0.56
1:T:434:ARG:CD	1:T:471:MET:SD	2.93	0.56
1:U:698:GLU:N	1:V:299:GLN:OE1	2.37	0.56
1:V:471:MET:N	1:5:272:ASN:OD1	2.39	0.56
1:W:418:GLU:OE2	1:W:641:LYS:N	2.35	0.56
1:X:496:ASN:O	1:5:459:GLN:NE2	2.38	0.56
1:3:497:ASN:ND2	1:j:590:GLN:HA	2.21	0.56
1:c:434:ARG:CD	1:c:471:MET:SD	2.93	0.56
1:f:524:MET:HG3	1:f:573:ALA:HB2	1.87	0.56
1:g:459:GLN:NE2	1:h:496:ASN:O	2.38	0.56
1:j:400:PHE:CD1	1:j:400:PHE:N	2.73	0.56
1:k:400:PHE:CD1	1:k:400:PHE:N	2.73	0.56
1:l:418:GLU:OE2	1:l:641:LYS:N	2.35	0.56
1:n:707:LYS:CE	1:z:384:ASP:OD2	2.52	0.56
1:o:471:MET:N	1:p:272:ASN:OD1	2.39	0.56
1:o:524:MET:HG3	1:o:573:ALA:HB2	1.87	0.56
1:p:658:PRO:HG2	1:u:250:PRO:HB3	1.87	0.56
1:p:695:TRP:HZ2	1:s:721:TYR:HH	1.53	0.56
1:q:431:SER:HA	1:q:568:THR:HB	1.87	0.56
1:s:490:SER:HA	1:s:534:PHE:CB	2.27	0.56
1:u:431:SER:HA	1:u:568:THR:HB	1.87	0.56
1:A:490:SER:HA	1:A:534:PHE:CB	2.27	0.56
1:B:434:ARG:CD	1:B:471:MET:SD	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:599:GLN:OE1	1:2:598:ASN:ND2	2.38	0.56
1:H:272:ASN:OD1	1:Y:471:MET:N	2.39	0.56
1:H:418:GLU:OE2	1:H:641:LYS:N	2.35	0.56
1:H:524:MET:HG3	1:H:573:ALA:HB2	1.87	0.56
1:J:707:LYS:CE	1:1:384:ASP:OD2	2.52	0.56
1:M:384:ASP:OD2	1:3:707:LYS:CE	2.51	0.56
1:N:400:PHE:CD1	1:N:400:PHE:N	2.73	0.56
1:R:599:GLN:OE1	1:S:598:ASN:ND2	2.38	0.56
1:T:400:PHE:CD1	1:T:400:PHE:N	2.73	0.56
1:V:496:ASN:O	1:X:459:GLN:NE2	2.38	0.56
1:X:309:ARG:O	1:X:686:GLU:N	2.36	0.56
1:Y:485:ARG:NH2	1:Y:576:SER:OG	2.39	0.56
1:Z:524:MET:HG3	1:Z:573:ALA:HB2	1.87	0.56
1:2:400:PHE:CD1	1:2:400:PHE:N	2.73	0.56
1:4:459:GLN:NE2	1:f:496:ASN:O	2.38	0.56
1:5:400:PHE:CD1	1:5:400:PHE:N	2.73	0.56
1:f:418:GLU:OE2	1:f:641:LYS:N	2.35	0.56
1:g:309:ARG:O	1:g:686:GLU:N	2.36	0.56
1:j:524:MET:HG3	1:j:573:ALA:HB2	1.87	0.56
1:k:272:ASN:OD1	1:m:471:MET:N	2.39	0.56
1:m:485:ARG:NH2	1:m:576:SER:OG	2.39	0.56
1:n:590:GLN:HA	1:o:497:ASN:ND2	2.21	0.56
1:v:250:PRO:HB3	1:w:658:PRO:HG2	1.87	0.56
1:y:272:ASN:OD1	1:7:471:MET:N	2.39	0.56
1:z:524:MET:HG3	1:z:573:ALA:HB2	1.87	0.56
1:7:299:GLN:OE1	1:8:698:GLU:N	2.37	0.56
1:B:658:PRO:HG2	1:C:250:PRO:HB3	1.87	0.55
1:D:485:ARG:NH2	1:D:576:SER:OG	2.40	0.55
1:D:524:MET:HG3	1:D:573:ALA:HB2	1.87	0.55
1:E:590:GLN:HA	1:Q:497:ASN:ND2	2.22	0.55
1:F:497:ASN:ND2	1:Q:590:GLN:HA	2.21	0.55
1:G:434:ARG:CD	1:G:471:MET:SD	2.93	0.55
1:J:400:PHE:CD1	1:J:400:PHE:N	2.73	0.55
1:J:590:GLN:HA	1:L:497:ASN:ND2	2.21	0.55
1:K:272:ASN:OD1	1:8:471:MET:N	2.39	0.55
1:K:434:ARG:CD	1:K:471:MET:SD	2.93	0.55
1:K:590:GLN:HA	1:1:497:ASN:ND2	2.21	0.55
1:M:431:SER:HA	1:M:568:THR:HB	1.87	0.55
1:O:272:ASN:OD1	1:h:471:MET:N	2.39	0.55
1:O:459:GLN:NE2	1:g:496:ASN:O	2.38	0.55
1:Q:524:MET:HG3	1:Q:573:ALA:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:496:ASN:O	1:U:459:GLN:NE2	2.39	0.55
1:S:400:PHE:CD1	1:S:400:PHE:N	2.73	0.55
1:T:471:MET:N	1:4:272:ASN:OD1	2.39	0.55
1:T:524:MET:HG3	1:T:573:ALA:HB2	1.87	0.55
1:U:485:ARG:NH2	1:U:576:SER:OG	2.40	0.55
1:W:485:ARG:NH2	1:W:576:SER:OG	2.39	0.55
1:1:434:ARG:CD	1:1:471:MET:SD	2.93	0.55
1:2:250:PRO:HB3	1:i:658:PRO:HG2	1.87	0.55
1:3:471:MET:N	1:i:272:ASN:OD1	2.39	0.55
1:3:496:ASN:O	1:j:459:GLN:NE2	2.38	0.55
1:4:485:ARG:NH2	1:4:576:SER:OG	2.40	0.55
1:6:485:ARG:NH2	1:6:576:SER:OG	2.40	0.55
1:a:698:GLU:N	1:t:299:GLN:OE1	2.36	0.55
1:b:707:LYS:CE	1:c:384:ASP:OD2	2.52	0.55
1:c:590:GLN:HA	1:d:497:ASN:ND2	2.21	0.55
1:d:559:MET:CG	1:d:726:PRO:CD	2.64	0.55
1:g:379:TYR:OH	1:g:395:TYR:N	2.30	0.55
1:l:485:ARG:NH2	1:l:576:SER:OG	2.39	0.55
1:m:563:GLU:OE2	1:m:613:TYR:OH	2.17	0.55
1:r:434:ARG:CD	1:r:471:MET:SD	2.93	0.55
1:z:434:ARG:CD	1:z:471:MET:SD	2.93	0.55
1:7:485:ARG:NH2	1:7:576:SER:OG	2.40	0.55
1:8:485:ARG:NH2	1:8:576:SER:OG	2.40	0.55
1:A:400:PHE:CD1	1:A:400:PHE:N	2.73	0.55
1:B:471:MET:N	1:J:272:ASN:OD1	2.39	0.55
1:D:698:GLU:N	1:M:299:GLN:OE1	2.37	0.55
1:E:251:THR:HG23	1:E:255:HIS:CE1	2.42	0.55
1:G:251:THR:HG23	1:G:255:HIS:CE1	2.42	0.55
1:J:431:SER:HA	1:J:568:THR:HB	1.87	0.55
1:K:485:ARG:NH2	1:K:576:SER:OG	2.39	0.55
1:L:559:MET:CE	1:L:724:PRO:O	2.54	0.55
1:N:485:ARG:NH2	1:N:576:SER:OG	2.40	0.55
1:O:400:PHE:CD1	1:O:400:PHE:N	2.73	0.55
1:O:590:GLN:HA	1:g:497:ASN:ND2	2.21	0.55
1:R:400:PHE:CD1	1:R:400:PHE:N	2.73	0.55
1:S:471:MET:N	1:U:272:ASN:OD1	2.39	0.55
1:S:524:MET:HG3	1:S:573:ALA:HB2	1.87	0.55
1:S:698:GLU:N	1:T:299:GLN:OE1	2.37	0.55
1:U:251:THR:HG23	1:U:255:HIS:CE1	2.42	0.55
1:X:379:TYR:OH	1:X:395:TYR:N	2.30	0.55
1:X:497:ASN:ND2	1:5:590:GLN:HA	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:459:GLN:NE2	1:x:496:ASN:O	2.38	0.55
1:1:270:ASN:OD1	1:1:514:ARG:NH2	2.40	0.55
1:1:524:MET:HG3	1:1:573:ALA:HB2	1.87	0.55
1:4:251:THR:HG23	1:4:255:HIS:CE1	2.42	0.55
1:5:485:ARG:NH2	1:5:576:SER:OG	2.39	0.55
1:a:485:ARG:NH2	1:a:576:SER:OG	2.40	0.55
1:a:524:MET:HG3	1:a:573:ALA:HB2	1.87	0.55
1:a:564:GLU:OE2	1:t:705:TYR:OH	2.25	0.55
1:c:270:ASN:OD1	1:c:514:ARG:NH2	2.40	0.55
1:c:524:MET:HG3	1:c:573:ALA:HB2	1.87	0.55
1:c:599:GLN:OE1	1:d:598:ASN:ND2	2.39	0.55
1:d:234:TRP:NE1	1:d:297:ASP:OD1	2.35	0.55
1:d:698:GLU:N	1:q:299:GLN:OE1	2.39	0.55
1:e:251:THR:HG23	1:e:255:HIS:CE1	2.42	0.55
1:n:272:ASN:OD1	1:p:471:MET:N	2.39	0.55
1:n:309:ARG:O	1:n:686:GLU:N	2.36	0.55
1:n:400:PHE:CD1	1:n:400:PHE:N	2.73	0.55
1:r:251:THR:HG23	1:r:255:HIS:CE1	2.42	0.55
1:s:379:TYR:OH	1:s:395:TYR:N	2.30	0.55
1:t:431:SER:HA	1:t:568:THR:HB	1.87	0.55
1:t:658:PRO:HG2	1:x:250:PRO:HB3	1.87	0.55
1:y:590:GLN:HA	1:z:497:ASN:ND2	2.21	0.55
1:z:485:ARG:NH2	1:z:576:SER:OG	2.40	0.55
1:7:698:GLU:N	1:8:299:GLN:OE1	2.37	0.55
1:8:379:TYR:OH	1:8:395:TYR:N	2.30	0.55
1:8:559:MET:CE	1:8:724:PRO:O	2.54	0.55
1:A:496:ASN:O	1:I:459:GLN:NE2	2.39	0.55
1:C:270:ASN:OD1	1:C:514:ARG:NH2	2.40	0.55
1:I:490:SER:HA	1:I:534:PHE:CB	2.27	0.55
1:J:234:TRP:NE1	1:J:297:ASP:OD1	2.35	0.55
1:J:250:PRO:HB3	1:1:658:PRO:HG2	1.87	0.55
1:K:400:PHE:CD1	1:K:400:PHE:N	2.73	0.55
1:L:431:SER:HA	1:L:568:THR:HB	1.87	0.55
1:M:309:ARG:O	1:M:686:GLU:N	2.36	0.55
1:M:485:ARG:NH2	1:M:576:SER:OG	2.40	0.55
1:M:497:ASN:ND2	1:2:590:GLN:HA	2.21	0.55
1:O:434:ARG:CD	1:O:471:MET:SD	2.93	0.55
1:O:485:ARG:NH2	1:O:576:SER:OG	2.39	0.55
1:Q:262:ASN:OD1	1:Q:263:SER:N	2.40	0.55
1:Q:270:ASN:OD1	1:Q:514:ARG:NH2	2.40	0.55
1:R:485:ARG:NH2	1:R:576:SER:OG	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:590:GLN:HA	1:S:497:ASN:ND2	2.21	0.55
1:S:434:ARG:CD	1:S:471:MET:SD	2.93	0.55
1:U:707:LYS:CE	1:5:384:ASP:OD2	2.51	0.55
1:V:272:ASN:OD1	1:X:471:MET:N	2.39	0.55
1:Z:262:ASN:OD1	1:Z:263:SER:N	2.40	0.55
1:Z:272:ASN:OD1	1:w:471:MET:N	2.38	0.55
1:Z:590:GLN:HA	1:x:497:ASN:ND2	2.21	0.55
1:1:485:ARG:NH2	1:1:576:SER:OG	2.40	0.55
1:3:485:ARG:NH2	1:3:576:SER:OG	2.40	0.55
1:4:559:MET:CE	1:4:724:PRO:O	2.55	0.55
1:5:262:ASN:OD1	1:5:263:SER:N	2.40	0.55
1:c:262:ASN:OD1	1:c:263:SER:N	2.40	0.55
1:c:497:ASN:ND2	1:e:590:GLN:HA	2.22	0.55
1:d:384:ASP:OD2	1:f:707:LYS:CE	2.53	0.55
1:d:559:MET:CE	1:d:724:PRO:O	2.55	0.55
1:g:471:MET:N	1:h:272:ASN:OD1	2.39	0.55
1:k:524:MET:HG3	1:k:573:ALA:HB2	1.87	0.55
1:p:434:ARG:CD	1:p:471:MET:SD	2.93	0.55
1:u:270:ASN:OD1	1:u:514:ARG:NH2	2.40	0.55
1:w:485:ARG:NH2	1:w:576:SER:OG	2.40	0.55
1:x:485:ARG:NH2	1:x:576:SER:OG	2.39	0.55
1:z:270:ASN:OD1	1:z:514:ARG:NH2	2.40	0.55
1:7:559:MET:CE	1:7:724:PRO:O	2.55	0.55
1:B:262:ASN:OD1	1:B:263:SER:N	2.40	0.55
1:B:270:ASN:OD1	1:B:514:ARG:NH2	2.40	0.55
1:B:524:MET:HG3	1:B:573:ALA:HB2	1.87	0.55
1:D:262:ASN:OD1	1:D:263:SER:N	2.40	0.55
1:F:559:MET:CE	1:F:724:PRO:O	2.55	0.55
1:I:262:ASN:OD1	1:I:263:SER:N	2.40	0.55
1:I:524:MET:HG3	1:I:573:ALA:HB2	1.87	0.55
1:M:270:ASN:OD1	1:M:514:ARG:NH2	2.40	0.55
1:M:623:PRO:HB3	1:2:736:LEU:HB3	1.89	0.55
1:O:262:ASN:OD1	1:O:263:SER:N	2.40	0.55
1:O:384:ASP:OD2	1:4:707:LYS:CE	2.51	0.55
1:P:251:THR:HG23	1:P:255:HIS:CE1	2.42	0.55
1:R:270:ASN:OD1	1:R:514:ARG:NH2	2.40	0.55
1:R:418:GLU:OE2	1:R:641:LYS:N	2.35	0.55
1:S:299:GLN:OE1	1:T:698:GLU:N	2.37	0.55
1:S:559:MET:CE	1:S:724:PRO:O	2.55	0.55
1:T:251:THR:HG23	1:T:255:HIS:CE1	2.42	0.55
1:V:251:THR:HG23	1:V:255:HIS:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:270:ASN:OD1	1:X:514:ARG:NH2	2.40	0.55
1:Z:658:PRO:HG2	1:1:250:PRO:HB3	1.88	0.55
1:3:251:THR:HG23	1:3:255:HIS:CE1	2.42	0.55
1:3:270:ASN:OD1	1:3:514:ARG:NH2	2.40	0.55
1:3:272:ASN:OD1	1:j:471:MET:N	2.39	0.55
1:3:590:GLN:HA	1:i:497:ASN:ND2	2.22	0.55
1:5:434:ARG:CD	1:5:471:MET:SD	2.93	0.55
1:d:250:PRO:HB3	1:r:658:PRO:HG2	1.88	0.55
1:e:431:SER:HA	1:e:568:THR:HB	1.87	0.55
1:e:485:ARG:NH2	1:e:576:SER:OG	2.40	0.55
1:f:270:ASN:OD1	1:f:514:ARG:NH2	2.40	0.55
1:f:400:PHE:CD1	1:f:400:PHE:N	2.73	0.55
1:g:270:ASN:OD1	1:g:514:ARG:NH2	2.40	0.55
1:h:251:THR:HG23	1:h:255:HIS:CE1	2.42	0.55
1:i:524:MET:HG3	1:i:573:ALA:HB2	1.87	0.55
1:j:262:ASN:OD1	1:j:263:SER:N	2.40	0.55
1:j:658:PRO:HG2	1:z:250:PRO:HB3	1.88	0.55
1:l:471:MET:N	1:m:272:ASN:OD1	2.39	0.55
1:n:250:PRO:HB3	1:z:658:PRO:HG2	1.87	0.55
1:o:379:TYR:OH	1:o:395:TYR:N	2.30	0.55
1:o:559:MET:CE	1:o:724:PRO:O	2.55	0.55
1:p:262:ASN:OD1	1:p:263:SER:N	2.40	0.55
1:q:309:ARG:O	1:q:686:GLU:N	2.36	0.55
1:q:400:PHE:CD1	1:q:400:PHE:N	2.73	0.55
1:s:262:ASN:OD1	1:s:263:SER:N	2.40	0.55
1:s:524:MET:HG3	1:s:573:ALA:HB2	1.87	0.55
1:t:270:ASN:OD1	1:t:514:ARG:NH2	2.40	0.55
1:t:485:ARG:NH2	1:t:576:SER:OG	2.40	0.55
1:v:559:MET:CE	1:v:724:PRO:O	2.55	0.55
1:y:485:ARG:NH2	1:y:576:SER:OG	2.40	0.55
1:A:309:ARG:O	1:A:686:GLU:N	2.36	0.55
1:B:485:ARG:NH2	1:B:576:SER:OG	2.40	0.55
1:C:262:ASN:OD1	1:C:263:SER:N	2.40	0.55
1:C:564:GLU:OE2	1:L:705:TYR:OH	2.25	0.55
1:D:270:ASN:OD1	1:D:514:ARG:NH2	2.40	0.55
1:D:497:ASN:ND2	1:P:590:GLN:HA	2.21	0.55
1:E:431:SER:HA	1:E:568:THR:HB	1.87	0.55
1:E:485:ARG:NH2	1:E:576:SER:OG	2.40	0.55
1:F:272:ASN:OD1	1:Q:471:MET:N	2.38	0.55
1:F:400:PHE:CD1	1:F:400:PHE:N	2.73	0.55
1:F:485:ARG:NH2	1:F:576:SER:OG	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:559:MET:CG	1:F:726:PRO:CD	2.64	0.55
1:G:590:GLN:HA	1:I:497:ASN:ND2	2.21	0.55
1:H:623:PRO:HB3	1:Y:736:LEU:HB3	1.89	0.55
1:J:309:ARG:O	1:J:686:GLU:N	2.36	0.55
1:K:270:ASN:OD1	1:K:514:ARG:NH2	2.40	0.55
1:N:251:THR:HG23	1:N:255:HIS:CE1	2.42	0.55
1:O:250:PRO:HB3	1:P:658:PRO:HG2	1.87	0.55
1:P:262:ASN:OD1	1:P:263:SER:N	2.40	0.55
1:S:251:THR:HG23	1:S:255:HIS:CE1	2.42	0.55
1:T:497:ASN:ND2	1:f:590:GLN:HA	2.21	0.55
1:T:559:MET:CE	1:T:724:PRO:O	2.55	0.55
1:W:471:MET:N	1:Y:272:ASN:OD1	2.39	0.55
1:X:559:MET:CE	1:X:724:PRO:O	2.55	0.55
1:Z:471:MET:N	1:x:272:ASN:OD1	2.39	0.55
1:Z:496:ASN:O	1:w:459:GLN:NE2	2.40	0.55
1:1:564:GLU:OE2	1:w:705:TYR:OH	2.25	0.55
1:2:270:ASN:OD1	1:2:514:ARG:NH2	2.40	0.55
1:2:434:ARG:CD	1:2:471:MET:SD	2.93	0.55
1:2:559:MET:CE	1:2:724:PRO:O	2.55	0.55
1:6:497:ASN:ND2	1:a:590:GLN:HA	2.21	0.55
1:a:262:ASN:OD1	1:a:263:SER:N	2.40	0.55
1:a:270:ASN:OD1	1:a:514:ARG:NH2	2.40	0.55
1:a:436:MET:CE	1:a:471:MET:HG2	2.27	0.55
1:b:251:THR:HG23	1:b:255:HIS:CE1	2.42	0.55
1:b:262:ASN:OD1	1:b:263:SER:N	2.40	0.55
1:d:485:ARG:NH2	1:d:576:SER:OG	2.40	0.55
1:f:251:THR:HG23	1:f:255:HIS:CE1	2.42	0.55
1:f:309:ARG:O	1:f:686:GLU:N	2.36	0.55
1:f:485:ARG:NH2	1:f:576:SER:OG	2.40	0.55
1:g:559:MET:CE	1:g:724:PRO:O	2.55	0.55
1:i:485:ARG:NH2	1:i:576:SER:OG	2.40	0.55
1:k:251:THR:HG23	1:k:255:HIS:CE1	2.42	0.55
1:k:623:PRO:HB3	1:m:736:LEU:HB3	1.89	0.55
1:n:485:ARG:NH2	1:n:576:SER:OG	2.40	0.55
1:o:431:SER:HA	1:o:568:THR:HB	1.87	0.55
1:o:705:TYR:OH	1:u:564:GLU:OE2	2.25	0.55
1:p:485:ARG:NH2	1:p:576:SER:OG	2.40	0.55
1:r:590:GLN:HA	1:s:497:ASN:ND2	2.21	0.55
1:t:309:ARG:O	1:t:686:GLU:N	2.36	0.55
1:t:384:ASP:OD2	1:x:707:LYS:CE	2.52	0.55
1:t:623:PRO:HB3	1:v:736:LEU:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:262:ASN:OD1	1:u:263:SER:N	2.40	0.55
1:v:270:ASN:OD1	1:v:514:ARG:NH2	2.40	0.55
1:v:434:ARG:CD	1:v:471:MET:SD	2.93	0.55
1:w:270:ASN:OD1	1:w:514:ARG:NH2	2.40	0.55
1:x:270:ASN:OD1	1:x:514:ARG:NH2	2.40	0.55
1:y:270:ASN:OD1	1:y:514:ARG:NH2	2.40	0.55
1:y:400:PHE:CD1	1:y:400:PHE:N	2.73	0.55
1:y:434:ARG:CD	1:y:471:MET:SD	2.93	0.55
1:y:459:GLN:NE2	1:z:496:ASN:O	2.38	0.55
1:y:471:MET:N	1:z:272:ASN:OD1	2.39	0.55
1:A:736:LEU:HB3	1:G:623:PRO:HB3	1.89	0.55
1:B:251:THR:HG23	1:B:255:HIS:CE1	2.42	0.55
1:F:234:TRP:NE1	1:F:297:ASP:OD1	2.35	0.55
1:F:270:ASN:OD1	1:F:514:ARG:NH2	2.40	0.55
1:G:559:MET:CE	1:G:724:PRO:O	2.54	0.55
1:H:251:THR:HG23	1:H:255:HIS:CE1	2.42	0.55
1:I:270:ASN:OD1	1:I:514:ARG:NH2	2.40	0.55
1:I:400:PHE:CD1	1:I:400:PHE:N	2.73	0.55
1:J:485:ARG:NH2	1:J:576:SER:OG	2.40	0.55
1:O:270:ASN:OD1	1:O:514:ARG:NH2	2.40	0.55
1:R:251:THR:HG23	1:R:255:HIS:CE1	2.42	0.55
1:W:262:ASN:OD1	1:W:263:SER:N	2.40	0.55
1:Y:251:THR:HG23	1:Y:255:HIS:CE1	2.42	0.55
1:3:262:ASN:OD1	1:3:263:SER:N	2.40	0.55
1:5:250:PRO:HB3	1:b:658:PRO:HG2	1.87	0.55
1:5:270:ASN:OD1	1:5:514:ARG:NH2	2.40	0.55
1:c:471:MET:N	1:d:272:ASN:OD1	2.38	0.55
1:g:599:GLN:OE1	1:h:598:ASN:ND2	2.38	0.55
1:h:309:ARG:O	1:h:686:GLU:N	2.36	0.55
1:h:485:ARG:NH2	1:h:576:SER:OG	2.40	0.55
1:i:250:PRO:HB3	1:7:658:PRO:HG2	1.87	0.55
1:i:270:ASN:OD1	1:i:514:ARG:NH2	2.40	0.55
1:i:471:MET:N	1:j:272:ASN:OD1	2.38	0.55
1:l:262:ASN:OD1	1:l:263:SER:N	2.40	0.55
1:m:251:THR:HG23	1:m:255:HIS:CE1	2.42	0.55
1:n:234:TRP:NE1	1:n:297:ASP:OD1	2.35	0.55
1:n:497:ASN:ND2	1:p:590:GLN:HA	2.21	0.55
1:n:623:PRO:HB3	1:p:736:LEU:HB3	1.89	0.55
1:p:270:ASN:OD1	1:p:514:ARG:NH2	2.40	0.55
1:p:524:MET:HG3	1:p:573:ALA:HB2	1.87	0.55
1:q:270:ASN:OD1	1:q:514:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:272:ASN:OD1	1:s:471:MET:N	2.39	0.55
1:s:270:ASN:OD1	1:s:514:ARG:NH2	2.40	0.55
1:s:400:PHE:CD1	1:s:400:PHE:N	2.73	0.55
1:t:497:ASN:ND2	1:v:590:GLN:HA	2.21	0.55
1:u:485:ARG:NH2	1:u:576:SER:OG	2.40	0.55
1:w:524:MET:HG3	1:w:573:ALA:HB2	1.87	0.55
1:x:251:THR:HG23	1:x:255:HIS:CE1	2.42	0.55
1:x:262:ASN:OD1	1:x:263:SER:N	2.40	0.55
1:C:400:PHE:CD1	1:C:400:PHE:N	2.73	0.55
1:C:485:ARG:NH2	1:C:576:SER:OG	2.40	0.55
1:D:436:MET:CE	1:D:471:MET:HG2	2.27	0.55
1:D:590:GLN:HA	1:N:497:ASN:ND2	2.21	0.55
1:E:598:ASN:ND2	1:F:599:GLN:OE1	2.38	0.55
1:H:270:ASN:OD1	1:H:514:ARG:NH2	2.40	0.55
1:I:379:TYR:OH	1:I:395:TYR:N	2.30	0.55
1:J:270:ASN:OD1	1:J:514:ARG:NH2	2.40	0.55
1:K:459:GLN:NE2	1:1:496:ASN:O	2.38	0.55
1:K:471:MET:N	1:1:272:ASN:OD1	2.39	0.55
1:L:379:TYR:OH	1:L:395:TYR:N	2.30	0.55
1:M:272:ASN:OD1	1:2:471:MET:N	2.39	0.55
1:N:705:TYR:OH	1:O:564:GLU:OE2	2.25	0.55
1:O:431:SER:HA	1:O:568:THR:HB	1.87	0.55
1:Q:485:ARG:NH2	1:Q:576:SER:OG	2.40	0.55
1:Q:490:SER:HA	1:Q:534:PHE:CB	2.27	0.55
1:Q:721:TYR:HH	1:R:695:TRP:HZ2	1.54	0.55
1:V:485:ARG:NH2	1:V:576:SER:OG	2.40	0.55
1:V:598:ASN:ND2	1:X:599:GLN:OE1	2.38	0.55
1:W:736:LEU:HB3	1:Y:623:PRO:HB3	1.89	0.55
1:Y:309:ARG:O	1:Y:686:GLU:N	2.36	0.55
1:1:559:MET:CE	1:1:724:PRO:O	2.55	0.55
1:5:431:SER:HA	1:5:568:THR:HB	1.87	0.55
1:6:251:THR:HG23	1:6:255:HIS:CE1	2.42	0.55
1:c:485:ARG:NH2	1:c:576:SER:OG	2.40	0.55
1:d:270:ASN:OD1	1:d:514:ARG:NH2	2.40	0.55
1:d:400:PHE:CD1	1:d:400:PHE:N	2.73	0.55
1:k:270:ASN:OD1	1:k:514:ARG:NH2	2.40	0.55
1:l:599:GLN:OE1	1:m:598:ASN:ND2	2.38	0.55
1:l:736:LEU:HB3	1:m:623:PRO:HB3	1.89	0.55
1:m:309:ARG:O	1:m:686:GLU:N	2.36	0.55
1:n:251:THR:HG23	1:n:255:HIS:CE1	2.42	0.55
1:n:270:ASN:OD1	1:n:514:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:559:MET:CE	1:r:724:PRO:O	2.55	0.55
1:w:250:PRO:HB3	1:8:658:PRO:HG2	1.87	0.55
1:z:559:MET:CE	1:z:724:PRO:O	2.55	0.55
1:A:234:TRP:NE1	1:A:297:ASP:OD1	2.35	0.55
1:A:270:ASN:OD1	1:A:514:ARG:NH2	2.40	0.55
1:B:590:GLN:HA	1:J:497:ASN:ND2	2.21	0.55
1:B:705:TYR:OH	1:I:564:GLU:OE2	2.25	0.55
1:B:736:LEU:HB3	1:J:623:PRO:HB3	1.89	0.55
1:D:564:GLU:OE2	1:M:705:TYR:OH	2.25	0.55
1:E:270:ASN:OD1	1:E:514:ARG:NH2	2.40	0.55
1:E:497:ASN:ND2	1:F:590:GLN:HA	2.21	0.55
1:H:434:ARG:CD	1:H:471:MET:SD	2.93	0.55
1:I:485:ARG:NH2	1:I:576:SER:OG	2.39	0.55
1:J:251:THR:HG23	1:J:255:HIS:CE1	2.42	0.55
1:J:559:MET:CE	1:J:724:PRO:O	2.55	0.55
1:J:564:GLU:OE2	1:K:705:TYR:OH	2.25	0.55
1:L:270:ASN:OD1	1:L:514:ARG:NH2	2.40	0.55
1:L:485:ARG:NH2	1:L:576:SER:OG	2.39	0.55
1:L:563:GLU:OE2	1:L:613:TYR:OH	2.17	0.55
1:R:262:ASN:OD1	1:R:263:SER:N	2.40	0.55
1:R:309:ARG:O	1:R:686:GLU:N	2.36	0.55
1:S:599:GLN:OE1	1:U:598:ASN:ND2	2.38	0.55
1:U:270:ASN:OD1	1:U:514:ARG:NH2	2.40	0.55
1:V:309:ARG:O	1:V:686:GLU:N	2.36	0.55
1:W:270:ASN:OD1	1:W:514:ARG:NH2	2.40	0.55
1:1:400:PHE:CD1	1:1:400:PHE:N	2.73	0.55
1:5:564:GLU:OE2	1:6:705:TYR:OH	2.25	0.55
1:5:695:TRP:HZ2	1:6:721:TYR:HH	1.54	0.55
1:a:497:ASN:ND2	1:b:590:GLN:HA	2.21	0.55
1:d:459:GLN:NE2	1:e:496:ASN:O	2.40	0.55
1:e:270:ASN:OD1	1:e:514:ARG:NH2	2.40	0.55
1:k:434:ARG:CD	1:k:471:MET:SD	2.93	0.55
1:n:559:MET:CE	1:n:724:PRO:O	2.55	0.55
1:p:251:THR:HG23	1:p:255:HIS:CE1	2.42	0.55
1:p:705:TYR:OH	1:s:564:GLU:OE2	2.25	0.55
1:q:234:TRP:NE1	1:q:297:ASP:OD1	2.35	0.55
1:s:485:ARG:NH2	1:s:576:SER:OG	2.40	0.55
1:t:272:ASN:OD1	1:v:471:MET:N	2.39	0.55
1:A:695:TRP:HZ2	1:F:721:TYR:HH	1.53	0.55
1:F:658:PRO:HG2	1:R:250:PRO:HB3	1.88	0.55
1:J:705:TYR:OH	1:K:564:GLU:OE2	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:262:ASN:OD1	1:K:263:SER:N	2.40	0.55
1:K:384:ASP:OD2	1:7:707:LYS:CE	2.51	0.55
1:K:497:ASN:ND2	1:8:590:GLN:HA	2.21	0.55
1:M:251:THR:HG23	1:M:255:HIS:CE1	2.42	0.55
1:N:564:GLU:OE2	1:O:705:TYR:OH	2.25	0.55
1:S:736:LEU:HB3	1:U:623:PRO:HB3	1.89	0.55
1:T:262:ASN:OD1	1:T:263:SER:N	2.40	0.55
1:T:270:ASN:OD1	1:T:514:ARG:NH2	2.40	0.55
1:T:599:GLN:OE1	1:4:598:ASN:ND2	2.38	0.55
1:T:736:LEU:HB3	1:4:623:PRO:HB3	1.89	0.55
1:V:270:ASN:OD1	1:V:514:ARG:NH2	2.40	0.55
1:W:599:GLN:OE1	1:Y:598:ASN:ND2	2.38	0.55
1:X:262:ASN:OD1	1:X:263:SER:N	2.40	0.55
1:1:471:MET:N	1:8:272:ASN:OD1	2.39	0.55
1:1:736:LEU:HB3	1:8:623:PRO:HB3	1.89	0.55
1:3:599:GLN:OE1	1:i:598:ASN:ND2	2.38	0.55
1:5:705:TYR:OH	1:6:564:GLU:OE2	2.25	0.55
1:a:705:TYR:OH	1:t:564:GLU:OE2	2.25	0.55
1:g:262:ASN:OD1	1:g:263:SER:N	2.40	0.55
1:h:270:ASN:OD1	1:h:514:ARG:NH2	2.40	0.55
1:i:251:THR:HG23	1:i:255:HIS:CE1	2.42	0.55
1:j:251:THR:HG23	1:j:255:HIS:CE1	2.42	0.55
1:k:471:MET:N	1:l:272:ASN:OD1	2.39	0.55
1:l:251:THR:HG23	1:l:255:HIS:CE1	2.42	0.55
1:l:270:ASN:OD1	1:l:514:ARG:NH2	2.40	0.55
1:n:564:GLU:OE2	1:y:705:TYR:OH	2.25	0.55
1:n:705:TYR:OH	1:y:564:GLU:OE2	2.25	0.55
1:o:251:THR:HG23	1:o:255:HIS:CE1	2.42	0.55
1:o:270:ASN:OD1	1:o:514:ARG:NH2	2.40	0.55
1:t:251:THR:HG23	1:t:255:HIS:CE1	2.42	0.55
1:y:262:ASN:OD1	1:y:263:SER:N	2.40	0.55
1:z:471:MET:N	1:7:272:ASN:OD1	2.39	0.55
1:A:262:ASN:OD1	1:A:263:SER:N	2.40	0.55
1:C:497:ASN:ND2	1:M:590:GLN:HA	2.21	0.55
1:E:483:SER:OG	1:E:577:TYR:HB2	2.07	0.55
1:F:262:ASN:OD1	1:F:263:SER:N	2.40	0.55
1:G:564:GLU:OE2	1:H:705:TYR:OH	2.25	0.55
1:H:309:ARG:O	1:H:686:GLU:N	2.36	0.55
1:H:471:MET:N	1:W:272:ASN:OD1	2.39	0.55
1:K:250:PRO:HB3	1:L:658:PRO:HG2	1.87	0.55
1:K:251:THR:HG23	1:K:255:HIS:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:251:THR:HG23	1:L:255:HIS:CE1	2.42	0.55
1:M:490:SER:HA	1:M:534:PHE:CB	2.27	0.55
1:N:262:ASN:OD1	1:N:263:SER:N	2.40	0.55
1:S:485:ARG:NH2	1:S:576:SER:OG	2.40	0.55
1:V:262:ASN:OD1	1:V:263:SER:N	2.40	0.55
1:W:251:THR:HG23	1:W:255:HIS:CE1	2.42	0.55
1:Y:270:ASN:OD1	1:Y:514:ARG:NH2	2.40	0.55
1:Z:736:LEU:HB3	1:x:623:PRO:HB3	1.89	0.55
1:3:623:PRO:HB3	1:j:736:LEU:HB3	1.89	0.55
1:4:270:ASN:OD1	1:4:514:ARG:NH2	2.40	0.55
1:4:471:MET:N	1:f:272:ASN:OD1	2.39	0.55
1:e:527:HIS:HB2	1:e:531:GLU:O	2.08	0.55
1:f:262:ASN:OD1	1:f:263:SER:N	2.40	0.55
1:h:262:ASN:OD1	1:h:263:SER:N	2.40	0.55
1:i:705:TYR:OH	1:z:564:GLU:OE2	2.25	0.55
1:j:485:ARG:NH2	1:j:576:SER:OG	2.40	0.55
1:k:705:TYR:OH	1:r:564:GLU:OE2	2.25	0.55
1:m:270:ASN:OD1	1:m:514:ARG:NH2	2.40	0.55
1:o:485:ARG:NH2	1:o:576:SER:OG	2.40	0.55
1:r:524:MET:HG3	1:r:573:ALA:HB2	1.87	0.55
1:u:400:PHE:CD1	1:u:400:PHE:N	2.73	0.55
1:w:251:THR:HG23	1:w:255:HIS:CE1	2.42	0.55
1:w:527:HIS:HB2	1:w:531:GLU:O	2.07	0.55
1:z:736:LEU:HB3	1:7:623:PRO:HB3	1.89	0.55
1:8:262:ASN:OD1	1:8:263:SER:N	2.40	0.55
1:A:599:GLN:OE1	1:G:598:ASN:ND2	2.37	0.54
1:C:527:HIS:HB2	1:C:531:GLU:O	2.08	0.54
1:D:736:LEU:HB3	1:N:623:PRO:HB3	1.89	0.54
1:E:527:HIS:HB2	1:E:531:GLU:O	2.08	0.54
1:G:524:MET:HG3	1:G:573:ALA:HB2	1.87	0.54
1:J:736:LEU:HB3	1:L:623:PRO:HB3	1.89	0.54
1:K:462:LYS:NZ	1:1:554:ASP:OD1	2.26	0.54
1:K:623:PRO:HB3	1:8:736:LEU:HB3	1.89	0.54
1:O:483:SER:OG	1:O:577:TYR:HB2	2.08	0.54
1:Q:251:THR:HG23	1:Q:255:HIS:CE1	2.42	0.54
1:R:272:ASN:OD1	1:U:471:MET:N	2.39	0.54
1:R:658:PRO:HG2	1:V:250:PRO:HB3	1.87	0.54
1:S:262:ASN:OD1	1:S:263:SER:N	2.40	0.54
1:S:270:ASN:OD1	1:S:514:ARG:NH2	2.40	0.54
1:T:485:ARG:NH2	1:T:576:SER:OG	2.40	0.54
1:V:497:ASN:OD1	1:V:498:ASN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:736:LEU:HB3	1:5:623:PRO:HB3	1.89	0.54
1:X:707:LYS:CE	1:Y:384:ASP:OD2	2.51	0.54
1:Y:262:ASN:OD1	1:Y:263:SER:N	2.40	0.54
1:Y:400:PHE:CD1	1:Y:400:PHE:N	2.73	0.54
1:Y:527:HIS:HB2	1:Y:531:GLU:O	2.07	0.54
1:Z:251:THR:HG23	1:Z:255:HIS:CE1	2.42	0.54
1:Z:485:ARG:NH2	1:Z:576:SER:OG	2.40	0.54
1:1:527:HIS:HB2	1:1:531:GLU:O	2.08	0.54
1:3:462:LYS:NZ	1:i:554:ASP:OD1	2.27	0.54
1:4:262:ASN:OD1	1:4:263:SER:N	2.40	0.54
1:5:251:THR:HG23	1:5:255:HIS:CE1	2.42	0.54
1:6:262:ASN:OD1	1:6:263:SER:N	2.40	0.54
1:6:270:ASN:OD1	1:6:514:ARG:NH2	2.40	0.54
1:6:736:LEU:HB3	1:b:623:PRO:HB3	1.89	0.54
1:b:485:ARG:NH2	1:b:576:SER:OG	2.40	0.54
1:c:251:THR:HG23	1:c:255:HIS:CE1	2.42	0.54
1:c:490:SER:HA	1:c:534:PHE:CB	2.27	0.54
1:c:695:TRP:HZ2	1:f:721:TYR:OH	1.90	0.54
1:d:262:ASN:OD1	1:d:263:SER:N	2.40	0.54
1:e:483:SER:OG	1:e:577:TYR:HB2	2.08	0.54
1:h:497:ASN:OD1	1:h:498:ASN:N	2.41	0.54
1:i:527:HIS:HB2	1:i:531:GLU:O	2.08	0.54
1:k:309:ARG:O	1:k:686:GLU:N	2.36	0.54
1:o:563:GLU:OE2	1:o:613:TYR:OH	2.17	0.54
1:q:262:ASN:OD1	1:q:263:SER:N	2.40	0.54
1:q:497:ASN:ND2	1:s:590:GLN:HA	2.21	0.54
1:q:736:LEU:HB3	1:r:623:PRO:HB3	1.89	0.54
1:r:483:SER:OG	1:r:577:TYR:HB2	2.08	0.54
1:v:299:GLN:OE1	1:x:698:GLU:N	2.37	0.54
1:x:483:SER:OG	1:x:577:TYR:HB2	2.07	0.54
1:y:384:ASP:OD2	1:8:707:LYS:CE	2.51	0.54
1:y:497:ASN:ND2	1:7:590:GLN:HA	2.21	0.54
1:y:623:PRO:HB3	1:7:736:LEU:HB3	1.89	0.54
1:z:400:PHE:CD1	1:z:400:PHE:N	2.73	0.54
1:8:270:ASN:OD1	1:8:514:ARG:NH2	2.40	0.54
1:8:497:ASN:OD1	1:8:498:ASN:N	2.41	0.54
1:E:272:ASN:OD1	1:F:471:MET:N	2.39	0.54
1:E:564:GLU:OE2	1:P:705:TYR:OH	2.25	0.54
1:E:623:PRO:HB3	1:F:736:LEU:HB3	1.89	0.54
1:G:483:SER:OG	1:G:577:TYR:HB2	2.08	0.54
1:G:698:GLU:N	1:H:299:GLN:OE1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:736:LEU:HB3	1:I:623:PRO:HB3	1.89	0.54
1:H:590:GLN:HA	1:W:497:ASN:ND2	2.21	0.54
1:J:483:SER:OG	1:J:577:TYR:HB2	2.08	0.54
1:K:736:LEU:HB3	1:1:623:PRO:HB3	1.89	0.54
1:L:527:HIS:HB2	1:L:531:GLU:O	2.08	0.54
1:M:497:ASN:OD1	1:M:498:ASN:N	2.41	0.54
1:M:527:HIS:HB2	1:M:531:GLU:O	2.08	0.54
1:N:559:MET:CE	1:N:724:PRO:O	2.55	0.54
1:N:736:LEU:HB3	1:P:623:PRO:HB3	1.89	0.54
1:O:251:THR:HG23	1:O:255:HIS:CE1	2.42	0.54
1:O:598:ASN:ND2	1:h:599:GLN:OE1	2.38	0.54
1:O:736:LEU:HB3	1:g:623:PRO:HB3	1.89	0.54
1:P:485:ARG:NH2	1:P:576:SER:OG	2.40	0.54
1:P:497:ASN:OD1	1:P:498:ASN:N	2.41	0.54
1:P:527:HIS:HB2	1:P:531:GLU:O	2.08	0.54
1:Q:705:TYR:OH	1:R:564:GLU:OE2	2.25	0.54
1:U:262:ASN:OD1	1:U:263:SER:N	2.40	0.54
1:X:623:PRO:HB3	1:5:736:LEU:HB3	1.89	0.54
1:2:262:ASN:OD1	1:2:263:SER:N	2.40	0.54
1:2:299:GLN:OE1	1:3:698:GLU:N	2.37	0.54
1:2:485:ARG:NH2	1:2:576:SER:OG	2.40	0.54
1:3:483:SER:OG	1:3:577:TYR:HB2	2.07	0.54
1:5:483:SER:OG	1:5:577:TYR:HB2	2.08	0.54
1:6:623:PRO:HB3	1:a:736:LEU:HB3	1.89	0.54
1:b:497:ASN:OD1	1:b:498:ASN:N	2.41	0.54
1:b:527:HIS:HB2	1:b:531:GLU:O	2.08	0.54
1:b:705:TYR:OH	1:e:564:GLU:OE2	2.25	0.54
1:d:309:ARG:O	1:d:686:GLU:N	2.36	0.54
1:d:658:PRO:HG2	1:f:250:PRO:HB3	1.89	0.54
1:j:270:ASN:OD1	1:j:514:ARG:NH2	2.40	0.54
1:k:299:GLN:OE1	1:r:698:GLU:N	2.37	0.54
1:k:485:ARG:NH2	1:k:576:SER:OG	2.40	0.54
1:k:590:GLN:HA	1:l:497:ASN:ND2	2.21	0.54
1:m:262:ASN:OD1	1:m:263:SER:N	2.40	0.54
1:m:400:PHE:CD1	1:m:400:PHE:N	2.73	0.54
1:n:483:SER:OG	1:n:577:TYR:HB2	2.08	0.54
1:n:736:LEU:HB3	1:o:623:PRO:HB3	1.89	0.54
1:o:527:HIS:HB2	1:o:531:GLU:O	2.08	0.54
1:o:658:PRO:HG2	1:y:250:PRO:HB3	1.87	0.54
1:s:483:SER:OG	1:s:577:TYR:HB2	2.08	0.54
1:t:497:ASN:OD1	1:t:498:ASN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:527:HIS:HB2	1:u:531:GLU:O	2.08	0.54
1:v:262:ASN:OD1	1:v:263:SER:N	2.40	0.54
1:y:497:ASN:OD1	1:y:498:ASN:N	2.41	0.54
1:z:527:HIS:HB2	1:z:531:GLU:O	2.08	0.54
1:7:262:ASN:OD1	1:7:263:SER:N	2.40	0.54
1:7:497:ASN:OD1	1:7:498:ASN:N	2.41	0.54
1:A:485:ARG:NH2	1:A:576:SER:OG	2.40	0.54
1:D:705:TYR:OH	1:M:564:GLU:OE2	2.25	0.54
1:G:497:ASN:OD1	1:G:498:ASN:N	2.41	0.54
1:H:485:ARG:NH2	1:H:576:SER:OG	2.40	0.54
1:I:483:SER:OG	1:I:577:TYR:HB2	2.08	0.54
1:N:270:ASN:OD1	1:N:514:ARG:NH2	2.40	0.54
1:N:299:GLN:OE1	1:O:698:GLU:N	2.37	0.54
1:O:623:PRO:HB3	1:h:736:LEU:HB3	1.89	0.54
1:P:483:SER:OG	1:P:577:TYR:HB2	2.08	0.54
1:U:705:TYR:OH	1:V:564:GLU:OE2	2.25	0.54
1:W:497:ASN:OD1	1:W:498:ASN:N	2.41	0.54
1:X:322:VAL:HG11	1:X:673:GLN:HE21	1.73	0.54
1:Y:434:ARG:CD	1:Y:471:MET:SD	2.93	0.54
1:Z:270:ASN:OD1	1:Z:514:ARG:NH2	2.40	0.54
1:1:262:ASN:OD1	1:1:263:SER:N	2.40	0.54
1:6:490:SER:HA	1:6:534:PHE:CB	2.27	0.54
1:6:559:MET:CE	1:6:724:PRO:O	2.55	0.54
1:f:497:ASN:OD1	1:f:498:ASN:N	2.41	0.54
1:g:322:VAL:HG11	1:g:673:GLN:HE21	1.73	0.54
1:g:707:LYS:CE	1:m:384:ASP:OD2	2.51	0.54
1:i:262:ASN:OD1	1:i:263:SER:N	2.40	0.54
1:i:322:VAL:HG11	1:i:673:GLN:HE21	1.73	0.54
1:l:497:ASN:OD1	1:l:498:ASN:N	2.41	0.54
1:o:250:PRO:HB3	1:v:658:PRO:HG2	1.87	0.54
1:o:262:ASN:OD1	1:o:263:SER:N	2.40	0.54
1:q:471:MET:N	1:r:272:ASN:OD1	2.39	0.54
1:q:599:GLN:OE1	1:r:598:ASN:ND2	2.38	0.54
1:r:485:ARG:NH2	1:r:576:SER:OG	2.40	0.54
1:r:497:ASN:OD1	1:r:498:ASN:N	2.41	0.54
1:t:490:SER:HA	1:t:534:PHE:CB	2.27	0.54
1:t:527:HIS:HB2	1:t:531:GLU:O	2.08	0.54
1:t:590:GLN:HA	1:u:497:ASN:ND2	2.21	0.54
1:v:485:ARG:NH2	1:v:576:SER:OG	2.40	0.54
1:7:270:ASN:OD1	1:7:514:ARG:NH2	2.40	0.54
1:7:564:GLU:OE2	1:8:705:TYR:OH	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:705:TYR:OH	1:8:564:GLU:OE2	2.25	0.54
1:8:251:THR:HG23	1:8:255:HIS:CE1	2.42	0.54
1:A:483:SER:OG	1:A:577:TYR:HB2	2.08	0.54
1:B:497:ASN:OD1	1:B:498:ASN:N	2.41	0.54
1:C:251:THR:HG23	1:C:255:HIS:CE1	2.42	0.54
1:D:272:ASN:OD1	1:P:471:MET:N	2.39	0.54
1:F:309:ARG:O	1:F:686:GLU:N	2.36	0.54
1:G:400:PHE:CD1	1:G:400:PHE:N	2.73	0.54
1:G:485:ARG:NH2	1:G:576:SER:OG	2.40	0.54
1:H:497:ASN:OD1	1:H:498:ASN:N	2.41	0.54
1:H:527:HIS:HB2	1:H:531:GLU:O	2.08	0.54
1:J:471:MET:N	1:L:272:ASN:OD1	2.39	0.54
1:K:497:ASN:OD1	1:K:498:ASN:N	2.41	0.54
1:L:250:PRO:HB3	1:2:658:PRO:HG2	1.87	0.54
1:P:379:TYR:OH	1:P:395:TYR:N	2.30	0.54
1:R:497:ASN:OD1	1:R:498:ASN:N	2.41	0.54
1:V:599:GLN:OE1	1:5:598:ASN:ND2	2.38	0.54
1:4:705:TYR:OH	1:h:564:GLU:OE2	2.25	0.54
1:5:698:GLU:N	1:6:299:GLN:OE1	2.37	0.54
1:a:251:THR:HG23	1:a:255:HIS:CE1	2.42	0.54
1:a:272:ASN:OD1	1:b:471:MET:N	2.39	0.54
1:b:483:SER:OG	1:b:577:TYR:HB2	2.08	0.54
1:d:527:HIS:HB2	1:d:531:GLU:O	2.07	0.54
1:j:527:HIS:HB2	1:j:531:GLU:O	2.08	0.54
1:k:497:ASN:OD1	1:k:498:ASN:N	2.41	0.54
1:m:527:HIS:HB2	1:m:531:GLU:O	2.08	0.54
1:p:497:ASN:OD1	1:p:498:ASN:N	2.41	0.54
1:q:483:SER:OG	1:q:577:TYR:HB2	2.08	0.54
1:q:485:ARG:NH2	1:q:576:SER:OG	2.40	0.54
1:q:623:PRO:HB3	1:s:736:LEU:HB3	1.89	0.54
1:w:322:VAL:HG11	1:w:673:GLN:HE21	1.73	0.54
1:y:736:LEU:HB3	1:z:623:PRO:HB3	1.89	0.54
1:z:309:ARG:O	1:z:686:GLU:N	2.36	0.54
1:A:272:ASN:OD1	1:I:471:MET:N	2.39	0.54
1:A:698:GLU:N	1:F:299:GLN:OE1	2.38	0.54
1:C:695:TRP:HZ2	1:L:721:TYR:OH	1.91	0.54
1:D:251:THR:HG23	1:D:255:HIS:CE1	2.42	0.54
1:E:262:ASN:OD1	1:E:263:SER:N	2.40	0.54
1:E:559:MET:CE	1:E:724:PRO:O	2.55	0.54
1:G:705:TYR:OH	1:H:564:GLU:OE2	2.25	0.54
1:H:262:ASN:OD1	1:H:263:SER:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:251:THR:HG23	1:I:255:HIS:CE1	2.42	0.54
1:J:262:ASN:OD1	1:J:263:SER:N	2.40	0.54
1:K:559:MET:CE	1:K:724:PRO:O	2.55	0.54
1:L:262:ASN:OD1	1:L:263:SER:N	2.40	0.54
1:L:483:SER:OG	1:L:577:TYR:HB2	2.08	0.54
1:M:262:ASN:OD1	1:M:263:SER:N	2.40	0.54
1:M:379:TYR:OH	1:M:395:TYR:N	2.30	0.54
1:Q:497:ASN:OD1	1:Q:498:ASN:N	2.41	0.54
1:V:527:HIS:HB2	1:V:531:GLU:O	2.08	0.54
1:X:485:ARG:NH2	1:X:576:SER:OG	2.40	0.54
1:X:527:HIS:HB2	1:X:531:GLU:O	2.08	0.54
1:Y:483:SER:OG	1:Y:577:TYR:HB2	2.08	0.54
1:Y:559:MET:CE	1:Y:724:PRO:O	2.55	0.54
1:1:251:THR:HG23	1:1:255:HIS:CE1	2.42	0.54
1:3:497:ASN:OD1	1:3:498:ASN:N	2.41	0.54
1:4:736:LEU:HB3	1:f:623:PRO:HB3	1.89	0.54
1:6:272:ASN:OD1	1:a:471:MET:N	2.39	0.54
1:a:483:SER:OG	1:a:577:TYR:HB2	2.08	0.54
1:c:483:SER:OG	1:c:577:TYR:HB2	2.07	0.54
1:d:497:ASN:OD1	1:d:498:ASN:N	2.41	0.54
1:e:262:ASN:OD1	1:e:263:SER:N	2.40	0.54
1:f:658:PRO:HG2	1:h:250:PRO:HB3	1.88	0.54
1:g:527:HIS:HB2	1:g:531:GLU:O	2.08	0.54
1:i:590:GLN:HA	1:j:497:ASN:ND2	2.21	0.54
1:k:527:HIS:HB2	1:k:531:GLU:O	2.08	0.54
1:m:434:ARG:CD	1:m:471:MET:SD	2.93	0.54
1:m:559:MET:CE	1:m:724:PRO:O	2.55	0.54
1:n:262:ASN:OD1	1:n:263:SER:N	2.40	0.54
1:n:563:GLU:OE2	1:n:613:TYR:OH	2.17	0.54
1:o:721:TYR:OH	1:u:695:TRP:HZ2	1.91	0.54
1:r:527:HIS:HB2	1:r:531:GLU:O	2.08	0.54
1:s:251:THR:HG23	1:s:255:HIS:CE1	2.42	0.54
1:t:736:LEU:HB3	1:u:623:PRO:HB3	1.89	0.54
1:v:705:TYR:OH	1:x:564:GLU:OE2	2.25	0.54
1:w:262:ASN:OD1	1:w:263:SER:N	2.40	0.54
1:w:497:ASN:ND2	1:x:590:GLN:HA	2.23	0.54
1:y:462:LYS:NZ	1:z:554:ASP:OD1	2.26	0.54
1:y:483:SER:OG	1:y:577:TYR:HB2	2.08	0.54
1:z:262:ASN:OD1	1:z:263:SER:N	2.40	0.54
1:7:251:THR:HG23	1:7:255:HIS:CE1	2.42	0.54
1:A:251:THR:HG23	1:A:255:HIS:CE1	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:563:GLU:OE2	1:B:613:TYR:OH	2.17	0.54
1:B:564:GLU:OE2	1:I:705:TYR:OH	2.25	0.54
1:D:483:SER:OG	1:D:577:TYR:HB2	2.08	0.54
1:F:497:ASN:OD1	1:F:498:ASN:N	2.41	0.54
1:F:527:HIS:HB2	1:F:531:GLU:O	2.08	0.54
1:G:270:ASN:OD1	1:G:514:ARG:NH2	2.40	0.54
1:H:322:VAL:HG11	1:H:673:GLN:HE21	1.73	0.54
1:H:490:SER:HA	1:H:534:PHE:CB	2.27	0.54
1:I:322:VAL:HG11	1:I:673:GLN:HE21	1.73	0.54
1:K:483:SER:OG	1:K:577:TYR:HB2	2.08	0.54
1:K:527:HIS:HB2	1:K:531:GLU:O	2.08	0.54
1:L:497:ASN:OD1	1:L:498:ASN:N	2.41	0.54
1:M:322:VAL:HG11	1:M:673:GLN:HE21	1.73	0.54
1:N:490:SER:HA	1:N:534:PHE:CB	2.27	0.54
1:Q:559:MET:CE	1:Q:724:PRO:O	2.54	0.54
1:R:379:TYR:OH	1:R:395:TYR:N	2.30	0.54
1:R:527:HIS:HB2	1:R:531:GLU:O	2.08	0.54
1:R:736:LEU:HB3	1:S:623:PRO:HB3	1.89	0.54
1:S:705:TYR:OH	1:T:564:GLU:OE2	2.25	0.54
1:T:623:PRO:HB3	1:f:736:LEU:HB3	1.89	0.54
1:U:695:TRP:HZ2	1:V:721:TYR:OH	1.91	0.54
1:X:251:THR:HG23	1:X:255:HIS:CE1	2.42	0.54
1:Z:527:HIS:HB2	1:Z:531:GLU:O	2.08	0.54
1:Z:598:ASN:ND2	1:w:599:GLN:OE1	2.37	0.54
1:1:563:GLU:OE2	1:1:613:TYR:OH	2.17	0.54
1:2:705:TYR:OH	1:3:564:GLU:OE2	2.25	0.54
1:4:322:VAL:HG11	1:4:673:GLN:HE21	1.73	0.54
1:5:322:VAL:HG11	1:5:673:GLN:HE21	1.73	0.54
1:c:497:ASN:OD1	1:c:498:ASN:N	2.41	0.54
1:e:559:MET:CE	1:e:724:PRO:O	2.55	0.54
1:f:483:SER:OG	1:f:577:TYR:HB2	2.08	0.54
1:f:527:HIS:HB2	1:f:531:GLU:O	2.08	0.54
1:g:251:THR:HG23	1:g:255:HIS:CE1	2.42	0.54
1:h:527:HIS:HB2	1:h:531:GLU:O	2.08	0.54
1:j:309:ARG:O	1:j:686:GLU:N	2.36	0.54
1:k:262:ASN:OD1	1:k:263:SER:N	2.40	0.54
1:k:322:VAL:HG11	1:k:673:GLN:HE21	1.73	0.54
1:m:483:SER:OG	1:m:577:TYR:HB2	2.08	0.54
1:o:483:SER:OG	1:o:577:TYR:HB2	2.08	0.54
1:q:436:MET:CE	1:q:471:MET:HG2	2.27	0.54
1:r:322:VAL:HG11	1:r:673:GLN:HE21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:736:LEU:HB3	1:s:623:PRO:HB3	1.90	0.54
1:s:322:VAL:HG11	1:s:673:GLN:HE21	1.73	0.54
1:t:262:ASN:OD1	1:t:263:SER:N	2.40	0.54
1:t:379:TYR:OH	1:t:395:TYR:N	2.30	0.54
1:u:251:THR:HG23	1:u:255:HIS:CE1	2.42	0.54
1:w:559:MET:CE	1:w:724:PRO:O	2.54	0.54
1:w:598:ASN:ND2	1:x:599:GLN:OE1	2.39	0.54
1:z:251:THR:HG23	1:z:255:HIS:CE1	2.42	0.54
1:8:322:VAL:HG11	1:8:673:GLN:HE21	1.73	0.54
1:8:527:HIS:HB2	1:8:531:GLU:O	2.08	0.54
1:C:497:ASN:OD1	1:C:498:ASN:N	2.41	0.54
1:C:623:PRO:HB3	1:M:736:LEU:HB3	1.89	0.54
1:D:471:MET:N	1:N:272:ASN:OD1	2.39	0.54
1:E:436:MET:SD	1:E:471:MET:CE	2.96	0.54
1:E:497:ASN:OD1	1:E:498:ASN:N	2.41	0.54
1:G:322:VAL:HG11	1:G:673:GLN:HE21	1.73	0.54
1:G:527:HIS:HB2	1:G:531:GLU:O	2.08	0.54
1:G:707:LYS:CE	1:W:384:ASP:OD2	2.52	0.54
1:H:483:SER:OG	1:H:577:TYR:HB2	2.08	0.54
1:J:563:GLU:OE2	1:J:613:TYR:OH	2.17	0.54
1:K:436:MET:CE	1:K:471:MET:HG2	2.27	0.54
1:L:322:VAL:HG11	1:L:673:GLN:HE21	1.73	0.54
1:N:322:VAL:HG11	1:N:673:GLN:HE21	1.73	0.54
1:Q:483:SER:OG	1:Q:577:TYR:HB2	2.08	0.54
1:R:471:MET:N	1:S:272:ASN:OD1	2.39	0.54
1:R:483:SER:OG	1:R:577:TYR:HB2	2.08	0.54
1:R:623:PRO:HB3	1:U:736:LEU:HB3	1.89	0.54
1:S:564:GLU:OE2	1:T:705:TYR:OH	2.25	0.54
1:T:527:HIS:HB2	1:T:531:GLU:O	2.08	0.54
1:U:322:VAL:HG11	1:U:673:GLN:HE21	1.73	0.54
1:U:436:MET:SD	1:U:471:MET:CE	2.96	0.54
1:U:527:HIS:HB2	1:U:531:GLU:O	2.08	0.54
1:V:483:SER:OG	1:V:577:TYR:HB2	2.08	0.54
1:W:527:HIS:HB2	1:W:531:GLU:O	2.08	0.54
1:W:564:GLU:OE2	1:X:705:TYR:OH	2.25	0.54
1:1:309:ARG:O	1:1:686:GLU:N	2.36	0.54
1:1:497:ASN:OD1	1:1:498:ASN:N	2.41	0.54
1:4:436:MET:SD	1:4:471:MET:CE	2.96	0.54
1:4:695:TRP:HZ2	1:h:721:TYR:OH	1.91	0.54
1:6:322:VAL:HG11	1:6:673:GLN:HE21	1.73	0.54
1:6:483:SER:OG	1:6:577:TYR:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:299:GLN:OE1	1:t:698:GLU:N	2.36	0.54
1:b:379:TYR:OH	1:b:395:TYR:N	2.30	0.54
1:f:379:TYR:OH	1:f:395:TYR:N	2.30	0.54
1:g:485:ARG:NH2	1:g:576:SER:OG	2.40	0.54
1:g:705:TYR:OH	1:l:564:GLU:OE2	2.25	0.54
1:h:322:VAL:HG11	1:h:673:GLN:HE21	1.73	0.54
1:i:559:MET:CE	1:i:724:PRO:O	2.54	0.54
1:k:564:GLU:OE2	1:r:705:TYR:OH	2.25	0.54
1:n:471:MET:N	1:o:272:ASN:OD1	2.39	0.54
1:o:322:VAL:HG11	1:o:673:GLN:HE21	1.73	0.54
1:o:497:ASN:OD1	1:o:498:ASN:N	2.41	0.54
1:r:400:PHE:CD1	1:r:400:PHE:N	2.73	0.54
1:v:721:TYR:OH	1:x:695:TRP:HZ2	1.91	0.54
1:w:285:ASP:O	1:w:363:CYS:HA	2.08	0.54
1:w:400:PHE:CD1	1:w:400:PHE:N	2.73	0.54
1:x:497:ASN:OD1	1:x:498:ASN:N	2.41	0.54
1:y:527:HIS:HB2	1:y:531:GLU:O	2.08	0.54
1:y:559:MET:CE	1:y:724:PRO:O	2.55	0.54
1:7:322:VAL:HG11	1:7:673:GLN:HE21	1.73	0.54
1:A:322:VAL:HG11	1:A:673:GLN:HE21	1.73	0.54
1:A:623:PRO:HB3	1:I:736:LEU:HB3	1.89	0.54
1:B:527:HIS:HB2	1:B:531:GLU:O	2.08	0.54
1:I:497:ASN:OD1	1:I:498:ASN:N	2.41	0.54
1:J:322:VAL:HG11	1:J:673:GLN:HE21	1.73	0.54
1:N:285:ASP:O	1:N:363:CYS:HA	2.08	0.54
1:N:471:MET:N	1:P:272:ASN:OD1	2.39	0.54
1:N:483:SER:OG	1:N:577:TYR:HB2	2.08	0.54
1:N:497:ASN:OD1	1:N:498:ASN:N	2.41	0.54
1:O:322:VAL:HG11	1:O:673:GLN:HE21	1.73	0.54
1:Q:436:MET:SD	1:Q:471:MET:CE	2.96	0.54
1:Q:527:HIS:HB2	1:Q:531:GLU:O	2.08	0.54
1:R:322:VAL:HG11	1:R:673:GLN:HE21	1.73	0.54
1:S:527:HIS:HB2	1:S:531:GLU:O	2.08	0.54
1:T:272:ASN:OD1	1:f:471:MET:N	2.39	0.54
1:U:564:GLU:OE2	1:V:705:TYR:OH	2.25	0.54
1:V:322:VAL:HG11	1:V:673:GLN:HE21	1.73	0.54
1:W:400:PHE:CD1	1:W:400:PHE:N	2.73	0.54
1:X:497:ASN:OD1	1:X:498:ASN:N	2.41	0.54
1:1:705:TYR:OH	1:w:564:GLU:OE2	2.25	0.54
1:3:322:VAL:HG11	1:3:673:GLN:HE21	1.73	0.54
1:4:527:HIS:HB2	1:4:531:GLU:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:564:GLU:OE2	1:h:705:TYR:OH	2.25	0.54
1:6:285:ASP:O	1:6:363:CYS:HA	2.08	0.54
1:c:436:MET:SD	1:c:471:MET:CE	2.96	0.54
1:c:559:MET:CE	1:c:724:PRO:O	2.55	0.54
1:e:436:MET:SD	1:e:471:MET:CE	2.96	0.54
1:e:497:ASN:OD1	1:e:498:ASN:N	2.41	0.54
1:f:559:MET:CE	1:f:724:PRO:O	2.55	0.54
1:h:483:SER:OG	1:h:577:TYR:HB2	2.08	0.54
1:h:527:HIS:HE1	1:h:564:GLU:HB2	1.73	0.54
1:i:285:ASP:O	1:i:363:CYS:HA	2.08	0.54
1:j:483:SER:OG	1:j:577:TYR:HB2	2.08	0.54
1:k:483:SER:OG	1:k:577:TYR:HB2	2.08	0.54
1:l:527:HIS:HB2	1:l:531:GLU:O	2.08	0.54
1:m:379:TYR:OH	1:m:395:TYR:N	2.30	0.54
1:n:322:VAL:HG11	1:n:673:GLN:HE21	1.73	0.54
1:n:527:HIS:HB2	1:n:531:GLU:O	2.08	0.54
1:p:527:HIS:HB2	1:p:531:GLU:O	2.08	0.54
1:p:564:GLU:OE2	1:s:705:TYR:OH	2.25	0.54
1:q:322:VAL:HG11	1:q:673:GLN:HE21	1.73	0.54
1:r:270:ASN:OD1	1:r:514:ARG:NH2	2.40	0.54
1:s:497:ASN:OD1	1:s:498:ASN:N	2.41	0.54
1:t:322:VAL:HG11	1:t:673:GLN:HE21	1.73	0.54
1:x:322:VAL:HG11	1:x:673:GLN:HE21	1.73	0.54
1:7:483:SER:OG	1:7:577:TYR:HB2	2.08	0.54
1:7:527:HIS:HB2	1:7:531:GLU:O	2.08	0.54
1:A:471:MET:N	1:G:272:ASN:OD1	2.40	0.54
1:B:436:MET:SD	1:B:471:MET:CE	2.96	0.54
1:D:527:HIS:HB2	1:D:531:GLU:O	2.08	0.54
1:E:322:VAL:HG11	1:E:673:GLN:HE21	1.73	0.54
1:F:251:THR:HG23	1:F:255:HIS:CE1	2.42	0.54
1:F:483:SER:OG	1:F:577:TYR:HB2	2.08	0.54
1:G:436:MET:SD	1:G:471:MET:CE	2.96	0.54
1:J:527:HIS:HB2	1:J:531:GLU:O	2.08	0.54
1:Z:483:SER:OG	1:Z:577:TYR:HB2	2.08	0.54
1:Z:497:ASN:ND2	1:w:590:GLN:HA	2.21	0.54
1:2:251:THR:HG23	1:2:255:HIS:CE1	2.42	0.54
1:2:497:ASN:OD1	1:2:498:ASN:N	2.41	0.54
1:2:721:TYR:OH	1:3:695:TRP:HZ2	1.91	0.54
1:4:462:LYS:NZ	1:f:554:ASP:OD1	2.26	0.54
1:5:559:MET:CE	1:5:724:PRO:O	2.55	0.54
1:6:471:MET:N	1:b:272:ASN:OD1	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:497:ASN:OD1	1:6:498:ASN:N	2.41	0.54
1:a:527:HIS:HB2	1:a:531:GLU:O	2.08	0.54
1:a:623:PRO:HB3	1:b:736:LEU:HB3	1.89	0.54
1:c:705:TYR:OH	1:f:564:GLU:OE2	2.26	0.54
1:d:483:SER:OG	1:d:577:TYR:HB2	2.08	0.54
1:e:322:VAL:HG11	1:e:673:GLN:HE21	1.73	0.54
1:g:497:ASN:OD1	1:g:498:ASN:N	2.41	0.54
1:g:721:TYR:OH	1:l:695:TRP:HZ2	1.91	0.54
1:i:400:PHE:CD1	1:i:400:PHE:N	2.73	0.54
1:i:599:GLN:OE1	1:j:598:ASN:ND2	2.38	0.54
1:i:695:TRP:HZ2	1:z:721:TYR:OH	1.91	0.54
1:n:695:TRP:HZ2	1:y:721:TYR:OH	1.91	0.54
1:p:436:MET:SD	1:p:471:MET:CE	2.96	0.54
1:q:251:THR:HG23	1:q:255:HIS:CE1	2.42	0.54
1:r:436:MET:SD	1:r:471:MET:CE	2.96	0.54
1:u:497:ASN:OD1	1:u:498:ASN:N	2.41	0.54
1:v:497:ASN:OD1	1:v:498:ASN:N	2.41	0.54
1:y:285:ASP:O	1:y:363:CYS:HA	2.08	0.54
1:z:497:ASN:OD1	1:z:498:ASN:N	2.41	0.54
1:A:559:MET:CE	1:A:724:PRO:O	2.55	0.54
1:B:695:TRP:HZ2	1:I:721:TYR:OH	1.91	0.54
1:C:436:MET:SD	1:C:471:MET:CE	2.96	0.54
1:H:559:MET:CE	1:H:724:PRO:O	2.54	0.54
1:H:736:LEU:HB3	1:W:623:PRO:HB3	1.89	0.54
1:J:695:TRP:HZ2	1:K:721:TYR:OH	1.91	0.54
1:K:285:ASP:O	1:K:363:CYS:HA	2.08	0.54
1:O:497:ASN:OD1	1:O:498:ASN:N	2.41	0.54
1:O:559:MET:CE	1:O:724:PRO:O	2.54	0.54
1:Q:400:PHE:CD1	1:Q:400:PHE:N	2.73	0.54
1:Q:564:GLU:OE2	1:R:705:TYR:OH	2.25	0.54
1:R:285:ASP:O	1:R:363:CYS:HA	2.08	0.54
1:R:497:ASN:ND2	1:U:590:GLN:HA	2.21	0.54
1:R:554:ASP:OD1	1:U:462:LYS:NZ	2.26	0.54
1:R:559:MET:CE	1:R:724:PRO:O	2.55	0.54
1:T:322:VAL:HG11	1:T:673:GLN:HE21	1.73	0.54
1:W:285:ASP:O	1:W:363:CYS:HA	2.08	0.54
1:W:695:TRP:HZ2	1:X:721:TYR:OH	1.91	0.54
1:Z:309:ARG:O	1:Z:686:GLU:N	2.36	0.54
1:2:322:VAL:HG11	1:2:673:GLN:HE21	1.73	0.54
1:2:436:MET:SD	1:2:471:MET:CE	2.96	0.54
1:4:590:GLN:HA	1:f:497:ASN:ND2	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:527:HIS:HE1	1:6:564:GLU:HB2	1.73	0.54
1:a:559:MET:CE	1:a:724:PRO:O	2.54	0.54
1:c:459:GLN:NE2	1:d:496:ASN:O	2.41	0.54
1:c:527:HIS:HB2	1:c:531:GLU:O	2.08	0.54
1:d:251:THR:HG23	1:d:255:HIS:CE1	2.42	0.54
1:f:285:ASP:O	1:f:363:CYS:HA	2.08	0.54
1:f:322:VAL:HG11	1:f:673:GLN:HE21	1.73	0.54
1:h:559:MET:CE	1:h:724:PRO:O	2.55	0.54
1:k:559:MET:CE	1:k:724:PRO:O	2.54	0.54
1:k:736:LEU:HB3	1:l:623:PRO:HB3	1.89	0.54
1:l:384:ASP:OD2	1:r:707:LYS:CE	2.52	0.54
1:q:559:MET:CG	1:q:726:PRO:CD	2.64	0.54
1:q:559:MET:CE	1:q:724:PRO:O	2.55	0.54
1:r:262:ASN:OD1	1:r:263:SER:N	2.40	0.54
1:u:436:MET:SD	1:u:471:MET:CE	2.96	0.54
1:v:251:THR:HG23	1:v:255:HIS:CE1	2.42	0.54
1:v:322:VAL:HG11	1:v:673:GLN:HE21	1.73	0.54
1:v:436:MET:SD	1:v:471:MET:CE	2.96	0.54
1:v:527:HIS:HB2	1:v:531:GLU:O	2.08	0.54
1:8:436:MET:SD	1:8:471:MET:CE	2.96	0.54
1:8:483:SER:OG	1:8:577:TYR:HB2	2.08	0.54
1:A:436:MET:CE	1:A:471:MET:HG2	2.27	0.53
1:D:436:MET:SD	1:D:471:MET:CE	2.96	0.53
1:D:559:MET:CE	1:D:724:PRO:O	2.54	0.53
1:E:599:GLN:OE1	1:Q:598:ASN:ND2	2.38	0.53
1:F:527:HIS:HE1	1:F:564:GLU:HB2	1.73	0.53
1:G:262:ASN:OD1	1:G:263:SER:N	2.40	0.53
1:L:285:ASP:O	1:L:363:CYS:HA	2.08	0.53
1:M:400:PHE:CD1	1:M:400:PHE:N	2.73	0.53
1:M:436:MET:SD	1:M:471:MET:CE	2.96	0.53
1:N:527:HIS:HE1	1:N:564:GLU:HB2	1.73	0.53
1:Q:695:TRP:HZ2	1:R:721:TYR:OH	1.91	0.53
1:S:322:VAL:HG11	1:S:673:GLN:HE21	1.73	0.53
1:U:483:SER:OG	1:U:577:TYR:HB2	2.08	0.53
1:V:559:MET:CE	1:V:724:PRO:O	2.55	0.53
1:W:322:VAL:HG11	1:W:673:GLN:HE21	1.73	0.53
1:W:483:SER:OG	1:W:577:TYR:HB2	2.08	0.53
1:Y:285:ASP:O	1:Y:363:CYS:HA	2.08	0.53
1:Z:497:ASN:OD1	1:Z:498:ASN:N	2.41	0.53
1:1:285:ASP:O	1:1:363:CYS:HA	2.08	0.53
1:2:527:HIS:HB2	1:2:531:GLU:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:564:GLU:OE2	1:3:705:TYR:OH	2.25	0.53
1:3:285:ASP:O	1:3:363:CYS:HA	2.08	0.53
1:3:736:LEU:HB3	1:i:623:PRO:HB3	1.89	0.53
1:6:527:HIS:HB2	1:6:531:GLU:O	2.07	0.53
1:a:285:ASP:O	1:a:363:CYS:HA	2.08	0.53
1:a:436:MET:SD	1:a:471:MET:CE	2.96	0.53
1:a:497:ASN:OD1	1:a:498:ASN:N	2.41	0.53
1:a:721:TYR:OH	1:t:695:TRP:HZ2	1.91	0.53
1:d:527:HIS:HE1	1:d:564:GLU:HB2	1.73	0.53
1:d:721:TYR:OH	1:q:695:TRP:HZ2	1.90	0.53
1:g:436:MET:SD	1:g:471:MET:CE	2.96	0.53
1:h:285:ASP:O	1:h:363:CYS:HA	2.08	0.53
1:i:436:MET:SD	1:i:471:MET:CE	2.96	0.53
1:i:564:GLU:OE2	1:z:705:TYR:OH	2.25	0.53
1:j:436:MET:SD	1:j:471:MET:CE	2.96	0.53
1:j:497:ASN:OD1	1:j:498:ASN:N	2.41	0.53
1:j:564:GLU:OE2	1:m:705:TYR:OH	2.25	0.53
1:k:490:SER:HA	1:k:534:PHE:CB	2.27	0.53
1:l:400:PHE:CD1	1:l:400:PHE:N	2.73	0.53
1:n:527:HIS:HE1	1:n:564:GLU:HB2	1.73	0.53
1:o:285:ASP:O	1:o:363:CYS:HA	2.08	0.53
1:p:563:GLU:OE2	1:p:613:TYR:OH	2.17	0.53
1:p:695:TRP:HZ2	1:s:721:TYR:OH	1.91	0.53
1:t:436:MET:SD	1:t:471:MET:CE	2.96	0.53
1:u:736:LEU:HB3	1:v:623:PRO:HB3	1.89	0.53
1:w:436:MET:SD	1:w:471:MET:CE	2.96	0.53
1:x:285:ASP:O	1:x:363:CYS:HA	2.08	0.53
1:x:527:HIS:HE1	1:x:564:GLU:HB2	1.73	0.53
1:z:285:ASP:O	1:z:363:CYS:HA	2.08	0.53
1:7:436:MET:SD	1:7:471:MET:CE	2.96	0.53
1:A:285:ASP:O	1:A:363:CYS:HA	2.08	0.53
1:B:623:PRO:HB3	1:L:736:LEU:HB3	1.89	0.53
1:B:721:TYR:OH	1:I:695:TRP:HZ2	1.91	0.53
1:D:285:ASP:O	1:D:363:CYS:HA	2.08	0.53
1:D:497:ASN:OD1	1:D:498:ASN:N	2.41	0.53
1:D:623:PRO:HB3	1:P:736:LEU:HB3	1.89	0.53
1:D:721:TYR:OH	1:M:695:TRP:HZ2	1.91	0.53
1:E:736:LEU:HB3	1:Q:623:PRO:HB3	1.89	0.53
1:J:527:HIS:HE1	1:J:564:GLU:HB2	1.73	0.53
1:K:527:HIS:HE1	1:K:564:GLU:HB2	1.73	0.53
1:O:436:MET:SD	1:O:471:MET:CE	2.96	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:270:ASN:OD1	1:P:514:ARG:NH2	2.40	0.53
1:S:497:ASN:OD1	1:S:498:ASN:N	2.41	0.53
1:S:527:HIS:HE1	1:S:564:GLU:HB2	1.74	0.53
1:T:497:ASN:OD1	1:T:498:ASN:N	2.41	0.53
1:T:527:HIS:HE1	1:T:564:GLU:HB2	1.73	0.53
1:U:309:ARG:O	1:U:686:GLU:N	2.36	0.53
1:V:285:ASP:O	1:V:363:CYS:HA	2.08	0.53
1:V:527:HIS:HE1	1:V:564:GLU:HB2	1.74	0.53
1:3:379:TYR:OH	1:3:395:TYR:N	2.30	0.53
1:3:436:MET:SD	1:3:471:MET:CE	2.96	0.53
1:3:527:HIS:HE1	1:3:564:GLU:HB2	1.73	0.53
1:4:420:VAL:HG11	1:4:638:PHE:HB3	1.91	0.53
1:4:721:TYR:OH	1:h:695:TRP:HZ2	1.91	0.53
1:5:436:MET:SD	1:5:471:MET:CE	2.96	0.53
1:5:497:ASN:OD1	1:5:498:ASN:N	2.41	0.53
1:5:527:HIS:HB2	1:5:531:GLU:O	2.08	0.53
1:c:285:ASP:O	1:c:363:CYS:HA	2.08	0.53
1:c:564:GLU:OE2	1:f:705:TYR:OH	2.25	0.53
1:i:379:TYR:OH	1:i:395:TYR:N	2.30	0.53
1:i:497:ASN:OD1	1:i:498:ASN:N	2.41	0.53
1:l:285:ASP:O	1:l:363:CYS:HA	2.08	0.53
1:l:322:VAL:HG11	1:l:673:GLN:HE21	1.73	0.53
1:l:436:MET:SD	1:l:471:MET:CE	2.96	0.53
1:l:483:SER:OG	1:l:577:TYR:HB2	2.08	0.53
1:m:285:ASP:O	1:m:363:CYS:HA	2.08	0.53
1:n:379:TYR:OH	1:n:395:TYR:N	2.30	0.53
1:o:736:LEU:HB3	1:p:623:PRO:HB3	1.89	0.53
1:q:285:ASP:O	1:q:363:CYS:HA	2.08	0.53
1:q:497:ASN:OD1	1:q:498:ASN:N	2.41	0.53
1:t:400:PHE:CD1	1:t:400:PHE:N	2.73	0.53
1:u:285:ASP:O	1:u:363:CYS:HA	2.08	0.53
1:v:483:SER:OG	1:v:577:TYR:HB2	2.08	0.53
1:y:436:MET:SD	1:y:471:MET:CE	2.96	0.53
1:y:436:MET:CE	1:y:471:MET:HG2	2.27	0.53
1:y:527:HIS:HE1	1:y:564:GLU:HB2	1.73	0.53
1:7:527:HIS:HE1	1:7:564:GLU:HB2	1.74	0.53
1:A:497:ASN:OD1	1:A:498:ASN:N	2.41	0.53
1:A:559:MET:CG	1:A:726:PRO:CD	2.64	0.53
1:B:554:ASP:OD1	1:L:462:LYS:NZ	2.26	0.53
1:C:285:ASP:O	1:C:363:CYS:HA	2.08	0.53
1:C:420:VAL:HG11	1:C:638:PHE:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:705:TYR:OH	1:L:564:GLU:OE2	2.25	0.53
1:E:346:THR:HG22	1:E:647:ILE:HG12	1.91	0.53
1:F:436:MET:SD	1:F:471:MET:CE	2.96	0.53
1:K:436:MET:SD	1:K:471:MET:CE	2.96	0.53
1:O:527:HIS:HB2	1:O:531:GLU:O	2.08	0.53
1:P:285:ASP:O	1:P:363:CYS:HA	2.08	0.53
1:P:420:VAL:HG11	1:P:638:PHE:HB3	1.91	0.53
1:Q:285:ASP:O	1:Q:363:CYS:HA	2.08	0.53
1:S:436:MET:SD	1:S:471:MET:CE	2.96	0.53
1:S:695:TRP:HZ2	1:T:721:TYR:OH	1.91	0.53
1:S:721:TYR:OH	1:T:695:TRP:HZ2	1.91	0.53
1:T:436:MET:SD	1:T:471:MET:CE	2.96	0.53
1:U:420:VAL:HG11	1:U:638:PHE:HB3	1.91	0.53
1:U:721:TYR:OH	1:V:695:TRP:HZ2	1.91	0.53
1:X:436:MET:SD	1:X:471:MET:CE	2.96	0.53
1:Y:379:TYR:OH	1:Y:395:TYR:N	2.30	0.53
1:Y:705:TYR:OH	1:Z:564:GLU:OE2	2.25	0.53
1:Z:436:MET:SD	1:Z:471:MET:CE	2.96	0.53
1:1:721:TYR:OH	1:w:695:TRP:HZ2	1.91	0.53
1:2:420:VAL:HG11	1:2:638:PHE:HB3	1.91	0.53
1:4:483:SER:OG	1:4:577:TYR:HB2	2.08	0.53
1:b:420:VAL:HG11	1:b:638:PHE:HB3	1.91	0.53
1:d:420:VAL:HG11	1:d:638:PHE:HB3	1.91	0.53
1:l:559:MET:CE	1:l:724:PRO:O	2.55	0.53
1:m:497:ASN:OD1	1:m:498:ASN:N	2.41	0.53
1:r:559:MET:CG	1:r:726:PRO:CD	2.64	0.53
1:s:527:HIS:HB2	1:s:531:GLU:O	2.08	0.53
1:u:420:VAL:HG11	1:u:638:PHE:HB3	1.91	0.53
1:v:420:VAL:HG11	1:v:638:PHE:HB3	1.91	0.53
1:w:379:TYR:OH	1:w:395:TYR:N	2.30	0.53
1:w:497:ASN:OD1	1:w:498:ASN:N	2.41	0.53
1:w:554:ASP:OD1	1:x:462:LYS:NZ	2.27	0.53
1:x:436:MET:SD	1:x:471:MET:CE	2.96	0.53
1:y:251:THR:HG23	1:y:255:HIS:CE1	2.42	0.53
1:8:527:HIS:HE1	1:8:564:GLU:HB2	1.74	0.53
1:C:736:LEU:HB3	1:2:623:PRO:HB3	1.89	0.53
1:D:299:GLN:OE1	1:M:698:GLU:N	2.37	0.53
1:D:420:VAL:HG11	1:D:638:PHE:HB3	1.91	0.53
1:D:527:HIS:HE1	1:D:564:GLU:HB2	1.73	0.53
1:F:420:VAL:HG11	1:F:638:PHE:HB3	1.91	0.53
1:F:623:PRO:HB3	1:Q:736:LEU:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:436:MET:SD	1:H:471:MET:CE	2.96	0.53
1:I:285:ASP:O	1:I:363:CYS:HA	2.08	0.53
1:I:527:HIS:HB2	1:I:531:GLU:O	2.08	0.53
1:L:527:HIS:HE1	1:L:564:GLU:HB2	1.73	0.53
1:M:598:ASN:ND2	1:2:599:GLN:OE1	2.38	0.53
1:N:527:HIS:HB2	1:N:531:GLU:O	2.08	0.53
1:Q:322:VAL:HG11	1:Q:673:GLN:HE21	1.73	0.53
1:S:285:ASP:O	1:S:363:CYS:HA	2.08	0.53
1:U:285:ASP:O	1:U:363:CYS:HA	2.08	0.53
1:U:527:HIS:HE1	1:U:564:GLU:HB2	1.73	0.53
1:W:276:GLY:HA3	1:W:380:LEU:HD23	1.91	0.53
1:W:436:MET:SD	1:W:471:MET:CE	2.96	0.53
1:W:559:MET:CE	1:W:724:PRO:O	2.55	0.53
1:Y:497:ASN:OD1	1:Y:498:ASN:N	2.41	0.53
1:Z:276:GLY:HA3	1:Z:380:LEU:HD23	1.91	0.53
1:1:490:SER:HA	1:1:534:PHE:CB	2.27	0.53
1:2:483:SER:OG	1:2:577:TYR:HB2	2.08	0.53
1:2:698:GLU:N	1:3:299:GLN:OE1	2.37	0.53
1:4:527:HIS:HE1	1:4:564:GLU:HB2	1.73	0.53
1:b:270:ASN:OD1	1:b:514:ARG:NH2	2.40	0.53
1:b:285:ASP:O	1:b:363:CYS:HA	2.08	0.53
1:c:623:PRO:HB3	1:e:736:LEU:HB3	1.90	0.53
1:d:436:MET:SD	1:d:471:MET:CE	2.96	0.53
1:e:346:THR:HG22	1:e:647:ILE:HG12	1.91	0.53
1:g:420:VAL:HG11	1:g:638:PHE:HB3	1.91	0.53
1:g:564:GLU:OE2	1:l:705:TYR:OH	2.25	0.53
1:j:276:GLY:HA3	1:j:380:LEU:HD23	1.91	0.53
1:j:705:TYR:OH	1:m:564:GLU:OE2	2.25	0.53
1:k:436:MET:SD	1:k:471:MET:CE	2.96	0.53
1:l:276:GLY:HA3	1:l:380:LEU:HD23	1.91	0.53
1:o:400:PHE:CD1	1:o:400:PHE:N	2.73	0.53
1:o:527:HIS:HE1	1:o:564:GLU:HB2	1.73	0.53
1:o:564:GLU:OE2	1:u:705:TYR:OH	2.25	0.53
1:p:483:SER:OG	1:p:577:TYR:HB2	2.08	0.53
1:v:564:GLU:OE2	1:x:705:TYR:OH	2.26	0.53
1:w:623:PRO:HB3	1:x:736:LEU:HB3	1.89	0.53
1:z:436:MET:SD	1:z:471:MET:CE	2.96	0.53
1:8:420:VAL:HG11	1:8:638:PHE:HB3	1.91	0.53
1:C:483:SER:OG	1:C:577:TYR:HB2	2.08	0.53
1:E:705:TYR:OH	1:P:564:GLU:OE2	2.25	0.53
1:N:559:MET:CG	1:N:726:PRO:CD	2.64	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:721:TYR:OH	1:R:695:TRP:HZ2	1.91	0.53
1:R:527:HIS:HE1	1:R:564:GLU:HB2	1.74	0.53
1:T:285:ASP:O	1:T:363:CYS:HA	2.08	0.53
1:T:483:SER:OG	1:T:577:TYR:HB2	2.08	0.53
1:W:705:TYR:OH	1:X:564:GLU:OE2	2.25	0.53
1:1:276:GLY:HA3	1:1:380:LEU:HD23	1.91	0.53
1:1:483:SER:OG	1:1:577:TYR:HB2	2.08	0.53
1:2:285:ASP:O	1:2:363:CYS:HA	2.08	0.53
1:4:309:ARG:O	1:4:686:GLU:N	2.36	0.53
1:5:285:ASP:O	1:5:363:CYS:HA	2.08	0.53
1:a:420:VAL:HG11	1:a:638:PHE:HB3	1.91	0.53
1:c:598:ASN:ND2	1:e:599:GLN:OE1	2.38	0.53
1:e:379:TYR:OH	1:e:395:TYR:N	2.30	0.53
1:g:483:SER:OG	1:g:577:TYR:HB2	2.08	0.53
1:p:276:GLY:HA3	1:p:380:LEU:HD23	1.91	0.53
1:p:527:HIS:HE1	1:p:564:GLU:HB2	1.73	0.53
1:p:721:TYR:OH	1:s:695:TRP:HZ2	1.91	0.53
1:r:346:THR:HG22	1:r:647:ILE:HG12	1.91	0.53
1:r:471:MET:N	1:s:272:ASN:OD1	2.39	0.53
1:s:285:ASP:O	1:s:363:CYS:HA	2.08	0.53
1:v:285:ASP:O	1:v:363:CYS:HA	2.08	0.53
1:x:420:VAL:HG11	1:x:638:PHE:HB3	1.91	0.53
1:z:276:GLY:HA3	1:z:380:LEU:HD23	1.91	0.53
1:z:322:VAL:HG11	1:z:673:GLN:HE21	1.73	0.53
1:z:379:TYR:OH	1:z:395:TYR:N	2.30	0.53
1:z:420:VAL:HG11	1:z:638:PHE:HB3	1.91	0.53
1:z:490:SER:HA	1:z:534:PHE:CB	2.28	0.53
1:7:420:VAL:HG11	1:7:638:PHE:HB3	1.91	0.53
1:A:420:VAL:HG11	1:A:638:PHE:HB3	1.91	0.53
1:A:436:MET:SD	1:A:471:MET:CE	2.96	0.53
1:B:276:GLY:HA3	1:B:380:LEU:HD23	1.91	0.53
1:B:483:SER:OG	1:B:577:TYR:HB2	2.08	0.53
1:E:285:ASP:O	1:E:363:CYS:HA	2.08	0.53
1:E:721:TYR:OH	1:P:695:TRP:HZ2	1.92	0.53
1:F:285:ASP:O	1:F:363:CYS:HA	2.08	0.53
1:J:379:TYR:OH	1:J:395:TYR:N	2.30	0.53
1:K:436:MET:HE3	1:K:471:MET:SD	2.49	0.53
1:K:598:ASN:ND2	1:8:599:GLN:OE1	2.38	0.53
1:L:436:MET:SD	1:L:471:MET:CE	2.96	0.53
1:L:436:MET:HE3	1:L:471:MET:SD	2.49	0.53
1:O:285:ASP:O	1:O:363:CYS:HA	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:346:THR:HG22	1:O:647:ILE:HG12	1.91	0.53
1:P:322:VAL:HG11	1:P:673:GLN:HE21	1.73	0.53
1:R:276:GLY:HA3	1:R:380:LEU:HD23	1.91	0.53
1:S:483:SER:OG	1:S:577:TYR:HB2	2.08	0.53
1:T:436:MET:HE3	1:T:471:MET:SD	2.49	0.53
1:V:623:PRO:HB3	1:X:736:LEU:HB3	1.89	0.53
1:X:527:HIS:HE1	1:X:564:GLU:HB2	1.74	0.53
1:Y:564:GLU:OE2	1:Z:705:TYR:OH	2.26	0.53
1:Y:695:TRP:HZ2	1:Z:721:TYR:OH	1.92	0.53
1:Z:623:PRO:HB3	1:w:736:LEU:HB3	1.89	0.53
1:1:322:VAL:HG11	1:1:673:GLN:HE21	1.73	0.53
1:1:420:VAL:HG11	1:1:638:PHE:HB3	1.91	0.53
1:1:436:MET:SD	1:1:471:MET:CE	2.96	0.53
1:2:346:THR:HG22	1:2:647:ILE:HG12	1.91	0.53
1:3:346:THR:HG22	1:3:647:ILE:HG12	1.91	0.53
1:4:285:ASP:O	1:4:363:CYS:HA	2.08	0.53
1:5:341:THR:OG1	1:5:652:THR:OG1	2.25	0.53
1:5:346:THR:HG22	1:5:647:ILE:HG12	1.91	0.53
1:5:527:HIS:HE1	1:5:564:GLU:HB2	1.73	0.53
1:6:436:MET:HE3	1:6:471:MET:SD	2.49	0.53
1:b:695:TRP:HZ2	1:e:721:TYR:OH	1.92	0.53
1:c:322:VAL:HG11	1:c:673:GLN:HE21	1.73	0.53
1:d:285:ASP:O	1:d:363:CYS:HA	2.08	0.53
1:e:285:ASP:O	1:e:363:CYS:HA	2.08	0.53
1:f:527:HIS:HE1	1:f:564:GLU:HB2	1.73	0.53
1:i:736:LEU:HB3	1:j:623:PRO:HB3	1.89	0.53
1:j:695:TRP:HZ2	1:m:721:TYR:OH	1.91	0.53
1:j:698:GLU:N	1:m:299:GLN:OE1	2.37	0.53
1:j:721:TYR:OH	1:m:695:TRP:HZ2	1.92	0.53
1:k:695:TRP:HZ2	1:r:721:TYR:HH	1.57	0.53
1:o:436:MET:SD	1:o:471:MET:CE	2.96	0.53
1:q:420:VAL:HG11	1:q:638:PHE:HB3	1.91	0.53
1:t:285:ASP:O	1:t:363:CYS:HA	2.08	0.53
1:u:276:GLY:HA3	1:u:380:LEU:HD23	1.91	0.53
1:u:436:MET:HE3	1:u:471:MET:SD	2.49	0.53
1:u:483:SER:OG	1:u:577:TYR:HB2	2.08	0.53
1:u:559:MET:CE	1:u:724:PRO:O	2.55	0.53
1:y:436:MET:HE3	1:y:471:MET:SD	2.49	0.53
1:z:483:SER:OG	1:z:577:TYR:HB2	2.08	0.53
1:A:527:HIS:HB2	1:A:531:GLU:O	2.08	0.53
1:C:276:GLY:HA3	1:C:380:LEU:HD23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:436:MET:HE3	1:C:471:MET:SD	2.49	0.53
1:D:276:GLY:HA3	1:D:380:LEU:HD23	1.91	0.53
1:E:436:MET:HE3	1:E:471:MET:SD	2.49	0.53
1:F:276:GLY:HA3	1:F:380:LEU:HD23	1.91	0.53
1:G:346:THR:HG22	1:G:647:ILE:HG12	1.91	0.53
1:I:346:THR:HG22	1:I:647:ILE:HG12	1.91	0.53
1:J:436:MET:SD	1:J:471:MET:CE	2.96	0.53
1:L:400:PHE:CD1	1:L:400:PHE:N	2.73	0.53
1:M:285:ASP:O	1:M:363:CYS:HA	2.08	0.53
1:M:420:VAL:HG11	1:M:638:PHE:HB3	1.91	0.53
1:M:483:SER:OG	1:M:577:TYR:HB2	2.08	0.53
1:N:276:GLY:HA3	1:N:380:LEU:HD23	1.91	0.53
1:Q:420:VAL:HG11	1:Q:638:PHE:HB3	1.91	0.53
1:S:436:MET:HE3	1:S:471:MET:SD	2.49	0.53
1:U:497:ASN:OD1	1:U:498:ASN:N	2.41	0.53
1:W:346:THR:HG22	1:W:647:ILE:HG12	1.91	0.53
1:X:420:VAL:HG11	1:X:638:PHE:HB3	1.91	0.53
1:X:483:SER:OG	1:X:577:TYR:HB2	2.08	0.53
1:Y:436:MET:SD	1:Y:471:MET:CE	2.96	0.53
1:Y:721:TYR:OH	1:Z:695:TRP:HZ2	1.91	0.53
1:4:497:ASN:OD1	1:4:498:ASN:N	2.41	0.53
1:5:721:TYR:OH	1:6:695:TRP:HZ2	1.91	0.53
1:6:559:MET:CG	1:6:726:PRO:CD	2.64	0.53
1:a:527:HIS:HE1	1:a:564:GLU:HB2	1.74	0.53
1:a:695:TRP:HZ2	1:t:721:TYR:OH	1.91	0.53
1:b:564:GLU:OE2	1:e:705:TYR:OH	2.26	0.53
1:d:276:GLY:HA3	1:d:380:LEU:HD23	1.91	0.53
1:e:527:HIS:HE1	1:e:564:GLU:HB2	1.73	0.53
1:f:276:GLY:HA3	1:f:380:LEU:HD23	1.91	0.53
1:g:436:MET:HE3	1:g:471:MET:SD	2.49	0.53
1:g:527:HIS:HE1	1:g:564:GLU:HB2	1.74	0.53
1:j:277:TYR:CE2	1:j:394:PHE:HD1	2.27	0.53
1:k:276:GLY:HA3	1:k:380:LEU:HD23	1.91	0.53
1:l:346:THR:HG22	1:l:647:ILE:HG12	1.91	0.53
1:m:436:MET:SD	1:m:471:MET:CE	2.96	0.53
1:n:436:MET:SD	1:n:471:MET:CE	2.96	0.53
1:o:346:THR:HG22	1:o:647:ILE:HG12	1.91	0.53
1:o:436:MET:HE3	1:o:471:MET:SD	2.49	0.53
1:q:436:MET:SD	1:q:471:MET:CE	2.96	0.53
1:q:527:HIS:HE1	1:q:564:GLU:HB2	1.73	0.53
1:s:346:THR:HG22	1:s:647:ILE:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:420:VAL:HG11	1:t:638:PHE:HB3	1.91	0.53
1:w:436:MET:HE3	1:w:471:MET:SD	2.49	0.53
1:w:483:SER:OG	1:w:577:TYR:HB2	2.08	0.53
1:x:346:THR:HG22	1:x:647:ILE:HG12	1.91	0.53
1:x:379:TYR:OH	1:x:395:TYR:N	2.30	0.53
1:x:527:HIS:HB2	1:x:531:GLU:O	2.08	0.53
1:y:322:VAL:HG11	1:y:673:GLN:HE21	1.73	0.53
1:A:564:GLU:OE2	1:F:705:TYR:OH	2.26	0.53
1:B:277:TYR:CE2	1:B:394:PHE:HD1	2.27	0.53
1:B:436:MET:HE3	1:B:471:MET:SD	2.49	0.53
1:C:559:MET:CE	1:C:724:PRO:O	2.55	0.53
1:E:527:HIS:HE1	1:E:564:GLU:HB2	1.74	0.53
1:G:471:MET:N	1:I:272:ASN:OD1	2.39	0.53
1:G:721:TYR:OH	1:H:695:TRP:HZ2	1.91	0.53
1:H:276:GLY:HA3	1:H:380:LEU:HD23	1.91	0.53
1:H:346:THR:HG22	1:H:647:ILE:HG12	1.91	0.53
1:I:277:TYR:CE2	1:I:394:PHE:HD1	2.27	0.53
1:J:346:THR:HG22	1:J:647:ILE:HG12	1.91	0.53
1:K:322:VAL:HG11	1:K:673:GLN:HE21	1.73	0.53
1:K:346:THR:HG22	1:K:647:ILE:HG12	1.91	0.53
1:K:420:VAL:HG11	1:K:638:PHE:HB3	1.91	0.53
1:L:346:THR:HG22	1:L:647:ILE:HG12	1.91	0.53
1:N:436:MET:HE3	1:N:471:MET:SD	2.49	0.53
1:N:695:TRP:HZ2	1:O:721:TYR:OH	1.91	0.53
1:O:527:HIS:HE1	1:O:564:GLU:HB2	1.73	0.53
1:W:277:TYR:CE2	1:W:394:PHE:HD1	2.27	0.53
1:X:276:GLY:HA3	1:X:380:LEU:HD23	1.91	0.53
1:X:436:MET:HE3	1:X:471:MET:SD	2.49	0.53
1:Y:299:GLN:OE1	1:Z:698:GLU:N	2.37	0.53
1:Y:436:MET:HE3	1:Y:471:MET:SD	2.49	0.53
1:2:527:HIS:HE1	1:2:564:GLU:HB2	1.73	0.53
1:2:695:TRP:HZ2	1:3:721:TYR:OH	1.92	0.53
1:3:420:VAL:HG11	1:3:638:PHE:HB3	1.91	0.53
1:6:276:GLY:HA3	1:6:380:LEU:HD23	1.91	0.53
1:a:322:VAL:HG11	1:a:673:GLN:HE21	1.73	0.53
1:b:322:VAL:HG11	1:b:673:GLN:HE21	1.73	0.53
1:c:420:VAL:HG11	1:c:638:PHE:HB3	1.91	0.53
1:c:527:HIS:HE1	1:c:564:GLU:HB2	1.74	0.53
1:c:563:GLU:OE2	1:c:613:TYR:OH	2.17	0.53
1:c:721:TYR:OH	1:f:695:TRP:HZ2	1.92	0.53
1:e:436:MET:HE3	1:e:471:MET:SD	2.49	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:436:MET:HE3	1:i:471:MET:SD	2.49	0.53
1:k:420:VAL:HG11	1:k:638:PHE:HB3	1.91	0.53
1:k:695:TRP:HZ2	1:r:721:TYR:OH	1.91	0.53
1:l:277:TYR:CE2	1:l:394:PHE:HD1	2.27	0.53
1:m:436:MET:HE3	1:m:471:MET:SD	2.49	0.53
1:n:285:ASP:O	1:n:363:CYS:HA	2.08	0.53
1:n:299:GLN:OE1	1:y:698:GLU:N	2.37	0.53
1:n:346:THR:HG22	1:n:647:ILE:HG12	1.91	0.53
1:n:497:ASN:OD1	1:n:498:ASN:N	2.41	0.53
1:n:721:TYR:OH	1:y:695:TRP:HZ2	1.91	0.53
1:p:277:TYR:CE2	1:p:394:PHE:HD1	2.27	0.53
1:q:527:HIS:HB2	1:q:531:GLU:O	2.08	0.53
1:s:277:TYR:CE2	1:s:394:PHE:HD1	2.27	0.53
1:t:483:SER:OG	1:t:577:TYR:HB2	2.08	0.53
1:t:598:ASN:ND2	1:v:599:GLN:OE1	2.38	0.53
1:v:346:THR:HG22	1:v:647:ILE:HG12	1.91	0.53
1:v:698:GLU:N	1:x:299:GLN:OE1	2.37	0.53
1:y:346:THR:HG22	1:y:647:ILE:HG12	1.91	0.53
1:7:695:TRP:HZ2	1:8:721:TYR:OH	1.91	0.53
1:A:436:MET:HE3	1:A:471:MET:SD	2.49	0.53
1:C:322:VAL:HG11	1:C:673:GLN:HE21	1.73	0.53
1:D:322:VAL:HG11	1:D:673:GLN:HE21	1.73	0.53
1:E:379:TYR:OH	1:E:395:TYR:N	2.30	0.53
1:G:527:HIS:HE1	1:G:564:GLU:HB2	1.73	0.53
1:G:559:MET:CG	1:G:726:PRO:CD	2.64	0.53
1:H:277:TYR:CE2	1:H:394:PHE:HD1	2.27	0.53
1:H:420:VAL:HG11	1:H:638:PHE:HB3	1.91	0.53
1:J:497:ASN:OD1	1:J:498:ASN:N	2.41	0.53
1:J:721:TYR:OH	1:K:695:TRP:HZ2	1.91	0.53
1:O:490:SER:HA	1:O:534:PHE:CB	2.28	0.53
1:V:346:THR:HG22	1:V:647:ILE:HG12	1.91	0.53
1:V:559:MET:CG	1:V:726:PRO:CD	2.64	0.53
1:X:285:ASP:O	1:X:363:CYS:HA	2.08	0.53
1:Z:277:TYR:CE2	1:Z:394:PHE:HD1	2.27	0.53
1:Z:527:HIS:HE1	1:Z:564:GLU:HB2	1.74	0.53
1:1:436:MET:HE3	1:1:471:MET:SD	2.49	0.53
1:3:527:HIS:HB2	1:3:531:GLU:O	2.08	0.53
1:5:490:SER:HA	1:5:534:PHE:CB	2.27	0.53
1:a:276:GLY:HA3	1:a:380:LEU:HD23	1.91	0.53
1:b:527:HIS:HE1	1:b:564:GLU:HB2	1.73	0.53
1:c:736:LEU:HB3	1:d:623:PRO:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:276:GLY:HA3	1:g:380:LEU:HD23	1.91	0.53
1:g:736:LEU:HB3	1:h:623:PRO:HB3	1.89	0.53
1:h:346:THR:HG22	1:h:647:ILE:HG12	1.91	0.53
1:i:483:SER:OG	1:i:577:TYR:HB2	2.08	0.53
1:j:346:THR:HG22	1:j:647:ILE:HG12	1.91	0.53
1:j:527:HIS:HE1	1:j:564:GLU:HB2	1.73	0.53
1:k:277:TYR:CE2	1:k:394:PHE:HD1	2.27	0.53
1:k:285:ASP:O	1:k:363:CYS:HA	2.08	0.53
1:k:346:THR:HG22	1:k:647:ILE:HG12	1.91	0.53
1:q:436:MET:HE3	1:q:471:MET:SD	2.49	0.53
1:w:276:GLY:HA3	1:w:380:LEU:HD23	1.91	0.53
1:y:277:TYR:CE2	1:y:394:PHE:HD1	2.27	0.53
1:y:420:VAL:HG11	1:y:638:PHE:HB3	1.91	0.53
1:y:598:ASN:ND2	1:7:599:GLN:OE1	2.38	0.53
1:z:436:MET:HE3	1:z:471:MET:SD	2.49	0.53
1:7:721:TYR:OH	1:8:695:TRP:HZ2	1.91	0.53
1:A:527:HIS:HE1	1:A:564:GLU:HB2	1.74	0.53
1:B:285:ASP:O	1:B:363:CYS:HA	2.08	0.53
1:B:527:HIS:HE1	1:B:564:GLU:HB2	1.74	0.53
1:D:436:MET:HE3	1:D:471:MET:SD	2.49	0.53
1:E:698:GLU:N	1:P:299:GLN:OE1	2.37	0.53
1:F:277:TYR:CE2	1:F:394:PHE:HD1	2.27	0.53
1:G:276:GLY:HA3	1:G:380:LEU:HD23	1.91	0.53
1:I:527:HIS:HE1	1:I:564:GLU:HB2	1.73	0.53
1:J:285:ASP:O	1:J:363:CYS:HA	2.08	0.53
1:K:277:TYR:CE2	1:K:394:PHE:HD1	2.27	0.53
1:M:276:GLY:HA3	1:M:380:LEU:HD23	1.91	0.53
1:M:559:MET:CE	1:M:724:PRO:O	2.54	0.53
1:N:559:MET:SD	1:N:726:PRO:CG	2.95	0.53
1:P:527:HIS:HE1	1:P:564:GLU:HB2	1.74	0.53
1:Q:527:HIS:HE1	1:Q:564:GLU:HB2	1.74	0.53
1:Z:346:THR:HG22	1:Z:647:ILE:HG12	1.91	0.53
1:1:277:TYR:CE2	1:1:394:PHE:HD1	2.27	0.53
1:1:527:HIS:HE1	1:1:564:GLU:HB2	1.73	0.53
1:1:695:TRP:HZ2	1:w:721:TYR:OH	1.91	0.53
1:5:277:TYR:CE2	1:5:394:PHE:HD1	2.27	0.53
1:6:559:MET:SD	1:6:726:PRO:CG	2.95	0.53
1:c:436:MET:HE3	1:c:471:MET:SD	2.49	0.53
1:i:276:GLY:HA3	1:i:380:LEU:HD23	1.91	0.53
1:l:527:HIS:HE1	1:l:564:GLU:HB2	1.73	0.53
1:m:420:VAL:HG11	1:m:638:PHE:HB3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:285:ASP:O	1:p:363:CYS:HA	2.08	0.53
1:p:436:MET:HE3	1:p:471:MET:SD	2.49	0.53
1:r:276:GLY:HA3	1:r:380:LEU:HD23	1.91	0.53
1:r:527:HIS:HE1	1:r:564:GLU:HB2	1.73	0.53
1:t:276:GLY:HA3	1:t:380:LEU:HD23	1.91	0.53
1:v:527:HIS:HE1	1:v:564:GLU:HB2	1.73	0.53
1:F:346:THR:HG22	1:F:647:ILE:HG12	1.91	0.52
1:F:554:ASP:OD1	1:Q:462:LYS:NZ	2.27	0.52
1:H:285:ASP:O	1:H:363:CYS:HA	2.08	0.52
1:I:276:GLY:HA3	1:I:380:LEU:HD23	1.91	0.52
1:J:276:GLY:HA3	1:J:380:LEU:HD23	1.91	0.52
1:J:299:GLN:OE1	1:K:698:GLU:N	2.37	0.52
1:L:276:GLY:HA3	1:L:380:LEU:HD23	1.91	0.52
1:L:277:TYR:CE2	1:L:394:PHE:HD1	2.27	0.52
1:M:346:THR:HG22	1:M:647:ILE:HG12	1.91	0.52
1:O:277:TYR:CE2	1:O:394:PHE:HD1	2.27	0.52
1:P:277:TYR:CE2	1:P:394:PHE:HD1	2.27	0.52
1:Q:436:MET:HE3	1:Q:471:MET:SD	2.49	0.52
1:R:436:MET:HE3	1:R:471:MET:SD	2.49	0.52
1:V:436:MET:HE3	1:V:471:MET:SD	2.49	0.52
1:W:527:HIS:HE1	1:W:564:GLU:HB2	1.73	0.52
1:Y:420:VAL:HG11	1:Y:638:PHE:HB3	1.91	0.52
1:2:276:GLY:HA3	1:2:380:LEU:HD23	1.91	0.52
1:a:277:TYR:CE2	1:a:394:PHE:HD1	2.27	0.52
1:a:436:MET:HE3	1:a:471:MET:SD	2.49	0.52
1:b:277:TYR:CE2	1:b:394:PHE:HD1	2.27	0.52
1:c:698:GLU:N	1:f:299:GLN:OE1	2.37	0.52
1:d:277:TYR:CE2	1:d:394:PHE:HD1	2.27	0.52
1:d:322:VAL:HG11	1:d:673:GLN:HE21	1.73	0.52
1:d:346:THR:HG22	1:d:647:ILE:HG12	1.91	0.52
1:g:285:ASP:O	1:g:363:CYS:HA	2.08	0.52
1:j:559:MET:CE	1:j:724:PRO:O	2.55	0.52
1:n:276:GLY:HA3	1:n:380:LEU:HD23	1.91	0.52
1:o:277:TYR:CE2	1:o:394:PHE:HD1	2.27	0.52
1:o:695:TRP:HZ2	1:u:721:TYR:OH	1.91	0.52
1:p:420:VAL:HG11	1:p:638:PHE:HB3	1.91	0.52
1:q:277:TYR:CE2	1:q:394:PHE:HD1	2.27	0.52
1:s:276:GLY:HA3	1:s:380:LEU:HD23	1.91	0.52
1:s:527:HIS:HE1	1:s:564:GLU:HB2	1.73	0.52
1:t:346:THR:HG22	1:t:647:ILE:HG12	1.91	0.52
1:z:277:TYR:CE2	1:z:394:PHE:HD1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:341:THR:OG1	1:7:652:THR:OG1	2.25	0.52
1:A:277:TYR:CE2	1:A:394:PHE:HD1	2.27	0.52
1:A:346:THR:HG22	1:A:647:ILE:HG12	1.91	0.52
1:A:705:TYR:OH	1:F:564:GLU:OE2	2.26	0.52
1:D:277:TYR:CE2	1:D:394:PHE:HD1	2.27	0.52
1:D:695:TRP:HZ2	1:M:721:TYR:OH	1.91	0.52
1:F:322:VAL:HG11	1:F:673:GLN:HE21	1.73	0.52
1:J:420:VAL:HG11	1:J:638:PHE:HB3	1.91	0.52
1:N:436:MET:SD	1:N:471:MET:CE	2.96	0.52
1:P:346:THR:HG22	1:P:647:ILE:HG12	1.91	0.52
1:Z:559:MET:CE	1:Z:724:PRO:O	2.55	0.52
1:f:436:MET:HE3	1:f:471:MET:SD	2.49	0.52
1:h:436:MET:HE3	1:h:471:MET:SD	2.49	0.52
1:i:698:GLU:N	1:z:299:GLN:OE1	2.37	0.52
1:j:285:ASP:O	1:j:363:CYS:HA	2.08	0.52
1:k:527:HIS:HE1	1:k:564:GLU:HB2	1.73	0.52
1:q:346:THR:HG22	1:q:647:ILE:HG12	1.91	0.52
1:r:599:GLN:OE1	1:s:598:ASN:ND2	2.38	0.52
1:t:559:MET:CE	1:t:724:PRO:O	2.55	0.52
1:u:322:VAL:HG11	1:u:673:GLN:HE21	1.73	0.52
1:v:276:GLY:HA3	1:v:380:LEU:HD23	1.91	0.52
1:z:527:HIS:HE1	1:z:564:GLU:HB2	1.74	0.52
1:7:277:TYR:CE2	1:7:394:PHE:HD1	2.27	0.52
1:8:277:TYR:CE2	1:8:394:PHE:HD1	2.27	0.52
1:B:420:VAL:HG11	1:B:638:PHE:HB3	1.91	0.52
1:C:527:HIS:HE1	1:C:564:GLU:HB2	1.73	0.52
1:C:721:TYR:OH	1:L:695:TRP:HZ2	1.91	0.52
1:M:527:HIS:HE1	1:M:564:GLU:HB2	1.73	0.52
1:N:277:TYR:CE2	1:N:394:PHE:HD1	2.27	0.52
1:R:346:THR:HG22	1:R:647:ILE:HG12	1.91	0.52
1:S:276:GLY:HA3	1:S:380:LEU:HD23	1.91	0.52
1:S:695:TRP:HZ2	1:T:721:TYR:HH	1.56	0.52
1:T:276:GLY:HA3	1:T:380:LEU:HD23	1.91	0.52
1:U:276:GLY:HA3	1:U:380:LEU:HD23	1.91	0.52
1:V:276:GLY:HA3	1:V:380:LEU:HD23	1.91	0.52
1:W:721:TYR:OH	1:X:695:TRP:HZ2	1.91	0.52
1:Y:322:VAL:HG11	1:Y:673:GLN:HE21	1.73	0.52
1:Z:285:ASP:O	1:Z:363:CYS:HA	2.08	0.52
1:4:276:GLY:HA3	1:4:380:LEU:HD23	1.91	0.52
1:b:276:GLY:HA3	1:b:380:LEU:HD23	1.91	0.52
1:b:346:THR:HG22	1:b:647:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:570:ASN:HD21	1:b:607:TRP:HA	1.75	0.52
1:h:276:GLY:HA3	1:h:380:LEU:HD23	1.91	0.52
1:i:277:TYR:CE2	1:i:394:PHE:HD1	2.27	0.52
1:m:322:VAL:HG11	1:m:673:GLN:HE21	1.73	0.52
1:m:527:HIS:HE1	1:m:564:GLU:HB2	1.73	0.52
1:o:276:GLY:HA3	1:o:380:LEU:HD23	1.91	0.52
1:r:285:ASP:O	1:r:363:CYS:HA	2.08	0.52
1:v:695:TRP:HZ2	1:x:721:TYR:OH	1.92	0.52
1:w:277:TYR:CE2	1:w:394:PHE:HD1	2.27	0.52
1:y:341:THR:HG1	1:y:652:THR:HG1	1.55	0.52
1:z:346:THR:HG22	1:z:647:ILE:HG12	1.91	0.52
1:z:437:ASN:HB2	1:7:355:VAL:HG13	1.92	0.52
1:8:346:THR:HG22	1:8:647:ILE:HG12	1.91	0.52
1:D:598:ASN:ND2	1:P:599:GLN:OE1	2.38	0.52
1:G:285:ASP:O	1:G:363:CYS:HA	2.08	0.52
1:K:276:GLY:HA3	1:K:380:LEU:HD23	1.91	0.52
1:O:276:GLY:HA3	1:O:380:LEU:HD23	1.91	0.52
1:P:436:MET:HE3	1:P:471:MET:SD	2.49	0.52
1:P:559:MET:CE	1:P:724:PRO:O	2.55	0.52
1:P:570:ASN:HD21	1:P:607:TRP:HA	1.75	0.52
1:R:277:TYR:CE2	1:R:394:PHE:HD1	2.27	0.52
1:V:570:ASN:HD21	1:V:607:TRP:HA	1.75	0.52
1:Z:420:VAL:HG11	1:Z:638:PHE:HB3	1.91	0.52
1:1:437:ASN:HB2	1:8:355:VAL:HG13	1.92	0.52
1:4:436:MET:HE3	1:4:471:MET:SD	2.49	0.52
1:5:276:GLY:HA3	1:5:380:LEU:HD23	1.91	0.52
1:5:695:TRP:HZ2	1:6:721:TYR:OH	1.91	0.52
1:6:277:TYR:CE2	1:6:394:PHE:HD1	2.27	0.52
1:6:570:ASN:HD21	1:6:607:TRP:HA	1.75	0.52
1:b:436:MET:HE3	1:b:471:MET:SD	2.49	0.52
1:f:277:TYR:CE2	1:f:394:PHE:HD1	2.27	0.52
1:f:346:THR:HG22	1:f:647:ILE:HG12	1.91	0.52
1:g:695:TRP:HZ2	1:l:721:TYR:OH	1.91	0.52
1:h:400:PHE:CD1	1:h:400:PHE:N	2.73	0.52
1:h:570:ASN:HD21	1:h:607:TRP:HA	1.75	0.52
1:i:527:HIS:HE1	1:i:564:GLU:HB2	1.74	0.52
1:k:721:TYR:OH	1:r:695:TRP:HZ2	1.91	0.52
1:n:277:TYR:CE2	1:n:394:PHE:HD1	2.27	0.52
1:q:570:ASN:HD21	1:q:607:TRP:HA	1.75	0.52
1:u:527:HIS:HE1	1:u:564:GLU:HB2	1.74	0.52
1:y:276:GLY:HA3	1:y:380:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:436:MET:HE3	1:7:471:MET:SD	2.49	0.52
1:A:570:ASN:HD21	1:A:607:TRP:HA	1.75	0.52
1:G:570:ASN:HD21	1:G:607:TRP:HA	1.75	0.52
1:G:599:GLN:OE1	1:I:598:ASN:ND2	2.38	0.52
1:H:527:HIS:HE1	1:H:564:GLU:HB2	1.73	0.52
1:H:598:ASN:ND2	1:Y:599:GLN:OE1	2.38	0.52
1:J:277:TYR:CE2	1:J:394:PHE:HD1	2.27	0.52
1:N:721:TYR:OH	1:O:695:TRP:HZ2	1.91	0.52
1:P:276:GLY:HA3	1:P:380:LEU:HD23	1.91	0.52
1:Q:698:GLU:N	1:R:299:GLN:OE1	2.37	0.52
1:U:436:MET:HE3	1:U:471:MET:SD	2.49	0.52
1:V:400:PHE:CD1	1:V:400:PHE:N	2.73	0.52
1:X:346:THR:HG22	1:X:647:ILE:HG12	1.91	0.52
1:Y:346:THR:HG22	1:Y:647:ILE:HG12	1.91	0.52
1:Y:570:ASN:HD21	1:Y:607:TRP:HA	1.75	0.52
1:6:436:MET:SD	1:6:471:MET:CE	2.96	0.52
1:b:299:GLN:OE1	1:e:698:GLU:N	2.37	0.52
1:d:436:MET:HE3	1:d:471:MET:SD	2.49	0.52
1:g:346:THR:HG22	1:g:647:ILE:HG12	1.91	0.52
1:j:420:VAL:HG11	1:j:638:PHE:HB3	1.91	0.52
1:k:598:ASN:ND2	1:m:599:GLN:OE1	2.38	0.52
1:m:346:THR:HG22	1:m:647:ILE:HG12	1.91	0.52
1:m:570:ASN:HD21	1:m:607:TRP:HA	1.75	0.52
1:n:420:VAL:HG11	1:n:638:PHE:HB3	1.91	0.52
1:n:436:MET:HE3	1:n:471:MET:SD	2.49	0.52
1:p:322:VAL:HG11	1:p:673:GLN:HE21	1.73	0.52
1:s:436:MET:HE3	1:s:471:MET:SD	2.49	0.52
1:s:570:ASN:HD21	1:s:607:TRP:HA	1.75	0.52
1:t:527:HIS:HE1	1:t:564:GLU:HB2	1.73	0.52
1:w:527:HIS:HE1	1:w:564:GLU:HB2	1.73	0.52
1:7:346:THR:HG22	1:7:647:ILE:HG12	1.91	0.52
1:8:436:MET:HE3	1:8:471:MET:SD	2.49	0.52
1:F:436:MET:HE3	1:F:471:MET:SD	2.49	0.52
1:G:420:VAL:HG11	1:G:638:PHE:HB3	1.91	0.52
1:G:436:MET:CE	1:G:471:MET:HG2	2.27	0.52
1:G:695:TRP:HZ2	1:H:721:TYR:OH	1.91	0.52
1:I:570:ASN:HD21	1:I:607:TRP:HA	1.75	0.52
1:J:436:MET:HE3	1:J:471:MET:SD	2.49	0.52
1:Q:563:GLU:OE2	1:Q:613:TYR:OH	2.17	0.52
1:X:277:TYR:CE2	1:X:394:PHE:HD1	2.27	0.52
1:1:346:THR:HG22	1:1:647:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:346:THR:HG22	1:a:647:ILE:HG12	1.91	0.52
1:a:598:ASN:ND2	1:b:599:GLN:OE1	2.38	0.52
1:b:559:MET:CE	1:b:724:PRO:O	2.55	0.52
1:d:471:MET:N	1:e:272:ASN:OD1	2.41	0.52
1:d:564:GLU:OE2	1:q:705:TYR:OH	2.27	0.52
1:i:721:TYR:OH	1:z:695:TRP:HZ2	1.91	0.52
1:m:276:GLY:HA3	1:m:380:LEU:HD23	1.91	0.52
1:r:420:VAL:HG11	1:r:638:PHE:HB3	1.91	0.52
1:s:420:VAL:HG11	1:s:638:PHE:HB3	1.91	0.52
1:s:436:MET:SD	1:s:471:MET:CE	2.96	0.52
1:8:276:GLY:HA3	1:8:380:LEU:HD23	1.91	0.52
1:B:322:VAL:HG11	1:B:673:GLN:HE21	1.73	0.52
1:D:570:ASN:HD21	1:D:607:TRP:HA	1.75	0.52
1:I:436:MET:HE3	1:I:471:MET:SD	2.49	0.52
1:L:559:MET:SD	1:L:726:PRO:CG	2.95	0.52
1:N:570:ASN:HD21	1:N:607:TRP:HA	1.75	0.52
1:Y:276:GLY:HA3	1:Y:380:LEU:HD23	1.91	0.52
1:Y:527:HIS:HE1	1:Y:564:GLU:HB2	1.73	0.52
1:4:277:TYR:CE2	1:4:394:PHE:HD1	2.27	0.52
1:5:436:MET:HE3	1:5:471:MET:SD	2.49	0.52
1:d:693:LYS:HE2	1:e:400:PHE:HD1	1.75	0.52
1:h:379:TYR:OH	1:h:395:TYR:N	2.30	0.52
1:k:570:ASN:HD21	1:k:607:TRP:HA	1.75	0.52
1:o:559:MET:SD	1:o:726:PRO:CG	2.95	0.52
1:r:436:MET:CE	1:r:471:MET:HG2	2.27	0.52
1:r:570:ASN:HD21	1:r:607:TRP:HA	1.75	0.52
1:x:277:TYR:CE2	1:x:394:PHE:HD1	2.27	0.52
1:8:285:ASP:O	1:8:363:CYS:HA	2.08	0.52
1:8:570:ASN:HD21	1:8:607:TRP:HA	1.75	0.52
1:D:346:THR:HG22	1:D:647:ILE:HG12	1.91	0.52
1:E:276:GLY:HA3	1:E:380:LEU:HD23	1.91	0.52
1:H:570:ASN:HD21	1:H:607:TRP:HA	1.75	0.52
1:I:420:VAL:HG11	1:I:638:PHE:HB3	1.91	0.52
1:I:436:MET:SD	1:I:471:MET:CE	2.96	0.52
1:Q:346:THR:HG22	1:Q:647:ILE:HG12	1.91	0.52
1:R:437:ASN:HB2	1:S:355:VAL:HG13	1.92	0.52
1:T:355:VAL:HG13	1:f:437:ASN:HB2	1.92	0.52
1:U:277:TYR:CE2	1:U:394:PHE:HD1	2.27	0.52
1:Y:277:TYR:CE2	1:Y:394:PHE:HD1	2.27	0.52
1:2:436:MET:HE3	1:2:471:MET:SD	2.49	0.52
1:3:277:TYR:CE2	1:3:394:PHE:HD1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:437:ASN:HB2	1:f:355:VAL:HG13	1.92	0.52
1:a:570:ASN:HD21	1:a:607:TRP:HA	1.75	0.52
1:b:721:TYR:OH	1:e:695:TRP:HZ2	1.91	0.52
1:g:277:TYR:CE2	1:g:394:PHE:HD1	2.27	0.52
1:l:490:SER:HA	1:l:534:PHE:CB	2.27	0.52
1:m:277:TYR:CE2	1:m:394:PHE:HD1	2.27	0.52
1:q:598:ASN:ND2	1:s:599:GLN:OE1	2.38	0.52
1:t:277:TYR:CE2	1:t:394:PHE:HD1	2.27	0.52
1:7:276:GLY:HA3	1:7:380:LEU:HD23	1.91	0.52
1:7:570:ASN:HD21	1:7:607:TRP:HA	1.75	0.52
1:B:346:THR:HG22	1:B:647:ILE:HG12	1.91	0.52
1:G:436:MET:HE3	1:G:471:MET:SD	2.49	0.52
1:J:570:ASN:HD21	1:J:607:TRP:HA	1.75	0.52
1:O:436:MET:HE3	1:O:471:MET:SD	2.49	0.52
1:Q:277:TYR:CE2	1:Q:394:PHE:HD1	2.27	0.52
1:T:346:THR:HG22	1:T:647:ILE:HG12	1.91	0.52
1:3:559:MET:CE	1:3:724:PRO:O	2.55	0.52
1:6:379:TYR:OH	1:6:395:TYR:N	2.30	0.52
1:c:277:TYR:CE2	1:c:394:PHE:HD1	2.27	0.52
1:e:276:GLY:HA3	1:e:380:LEU:HD23	1.91	0.52
1:e:277:TYR:CE2	1:e:394:PHE:HD1	2.27	0.52
1:h:420:VAL:HG11	1:h:638:PHE:HB3	1.91	0.52
1:i:346:THR:HG22	1:i:647:ILE:HG12	1.91	0.52
1:i:420:VAL:HG11	1:i:638:PHE:HB3	1.91	0.52
1:j:322:VAL:HG11	1:j:673:GLN:HE21	1.73	0.52
1:x:559:MET:CE	1:x:724:PRO:O	2.55	0.52
1:7:285:ASP:O	1:7:363:CYS:HA	2.08	0.52
1:7:563:GLU:OE2	1:7:613:TYR:OH	2.17	0.52
1:8:563:GLU:OE2	1:8:613:TYR:OH	2.17	0.52
1:A:355:VAL:HG13	1:I:437:ASN:HB2	1.92	0.52
1:B:559:MET:CE	1:B:724:PRO:O	2.55	0.52
1:G:277:TYR:CE2	1:G:394:PHE:HD1	2.27	0.52
1:J:437:ASN:HB2	1:L:355:VAL:HG13	1.92	0.52
1:K:355:VAL:HG13	1:8:437:ASN:HB2	1.92	0.52
1:L:420:VAL:HG11	1:L:638:PHE:HB3	1.91	0.52
1:M:355:VAL:HG13	1:2:437:ASN:HB2	1.92	0.52
1:N:346:THR:HG22	1:N:647:ILE:HG12	1.91	0.52
1:Q:276:GLY:HA3	1:Q:380:LEU:HD23	1.91	0.52
1:R:355:VAL:HG13	1:U:437:ASN:HB2	1.92	0.52
1:R:420:VAL:HG11	1:R:638:PHE:HB3	1.91	0.52
1:S:346:THR:HG22	1:S:647:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:379:TYR:OH	1:V:395:TYR:N	2.30	0.52
1:V:420:VAL:HG11	1:V:638:PHE:HB3	1.91	0.52
1:3:598:ASN:ND2	1:j:599:GLN:OE1	2.38	0.52
1:b:436:MET:SD	1:b:471:MET:CE	2.96	0.52
1:c:276:GLY:HA3	1:c:380:LEU:HD23	1.91	0.52
1:c:346:THR:HG22	1:c:647:ILE:HG12	1.91	0.52
1:d:437:ASN:HB2	1:e:355:VAL:HG13	1.92	0.52
1:j:436:MET:HE3	1:j:471:MET:SD	2.49	0.52
1:n:437:ASN:HB2	1:o:355:VAL:HG13	1.92	0.52
1:o:490:SER:HA	1:o:534:PHE:CB	2.27	0.52
1:p:346:THR:HG22	1:p:647:ILE:HG12	1.91	0.52
1:p:570:ASN:HD21	1:p:607:TRP:HA	1.75	0.52
1:q:355:VAL:HG13	1:s:437:ASN:HB2	1.92	0.52
1:r:277:TYR:CE2	1:r:394:PHE:HD1	2.27	0.52
1:r:436:MET:HE3	1:r:471:MET:SD	2.49	0.52
1:t:355:VAL:HG13	1:v:437:ASN:HB2	1.92	0.52
1:w:346:THR:HG22	1:w:647:ILE:HG12	1.91	0.52
1:x:436:MET:HE3	1:x:471:MET:SD	2.49	0.52
1:A:598:ASN:ND2	1:I:599:GLN:OE1	2.38	0.51
1:C:598:ASN:ND2	1:M:599:GLN:OE1	2.38	0.51
1:H:355:VAL:HG13	1:Y:437:ASN:HB2	1.92	0.51
1:H:436:MET:HE3	1:H:471:MET:SD	2.49	0.51
1:H:437:ASN:HB2	1:W:355:VAL:HG13	1.92	0.51
1:M:277:TYR:CE2	1:M:394:PHE:HD1	2.27	0.51
1:M:436:MET:HE3	1:M:471:MET:SD	2.49	0.51
1:O:570:ASN:HD21	1:O:607:TRP:HA	1.75	0.51
1:R:436:MET:SD	1:R:471:MET:CE	2.96	0.51
1:S:420:VAL:HG11	1:S:638:PHE:HB3	1.91	0.51
1:T:277:TYR:CE2	1:T:394:PHE:HD1	2.27	0.51
1:T:420:VAL:HG11	1:T:638:PHE:HB3	1.91	0.51
1:X:341:THR:OG1	1:X:652:THR:OG1	2.25	0.51
1:Z:322:VAL:HG11	1:Z:673:GLN:HE21	1.73	0.51
1:Z:570:ASN:HD21	1:Z:607:TRP:HA	1.75	0.51
1:2:379:TYR:OH	1:2:395:TYR:N	2.30	0.51
1:6:346:THR:HG22	1:6:647:ILE:HG12	1.91	0.51
1:f:420:VAL:HG11	1:f:638:PHE:HB3	1.91	0.51
1:f:436:MET:SD	1:f:471:MET:CE	2.96	0.51
1:k:355:VAL:HG13	1:m:437:ASN:HB2	1.92	0.51
1:k:437:ASN:HB2	1:l:355:VAL:HG13	1.92	0.51
1:l:436:MET:HE3	1:l:471:MET:SD	2.49	0.51
1:n:570:ASN:HD21	1:n:607:TRP:HA	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:436:MET:HE3	1:t:471:MET:SD	2.49	0.51
1:u:277:TYR:CE2	1:u:394:PHE:HD1	2.27	0.51
1:v:379:TYR:OH	1:v:395:TYR:N	2.30	0.51
1:v:436:MET:HE3	1:v:471:MET:SD	2.49	0.51
1:w:420:VAL:HG11	1:w:638:PHE:HB3	1.91	0.51
1:x:570:ASN:HD21	1:x:607:TRP:HA	1.75	0.51
1:y:355:VAL:HG13	1:7:437:ASN:HB2	1.92	0.51
1:A:695:TRP:HZ2	1:F:721:TYR:OH	1.92	0.51
1:E:277:TYR:CE2	1:E:394:PHE:HD1	2.27	0.51
1:E:420:VAL:HG11	1:E:638:PHE:HB3	1.91	0.51
1:E:695:TRP:HZ2	1:P:721:TYR:OH	1.91	0.51
1:N:379:TYR:OH	1:N:395:TYR:N	2.30	0.51
1:P:436:MET:SD	1:P:471:MET:CE	2.96	0.51
1:R:490:SER:HA	1:R:534:PHE:CB	2.27	0.51
1:S:277:TYR:CE2	1:S:394:PHE:HD1	2.27	0.51
1:U:570:ASN:HD21	1:U:607:TRP:HA	1.75	0.51
1:W:436:MET:HE3	1:W:471:MET:SD	2.49	0.51
1:X:400:PHE:CD1	1:X:400:PHE:N	2.73	0.51
1:Z:599:GLN:OE1	1:x:598:ASN:ND2	2.38	0.51
1:2:277:TYR:CE2	1:2:394:PHE:HD1	2.27	0.51
1:3:436:MET:HE3	1:3:471:MET:SD	2.49	0.51
1:4:570:ASN:HD21	1:4:607:TRP:HA	1.75	0.51
1:5:420:VAL:HG11	1:5:638:PHE:HB3	1.91	0.51
1:5:570:ASN:HD21	1:5:607:TRP:HA	1.75	0.51
1:6:420:VAL:HG11	1:6:638:PHE:HB3	1.91	0.51
1:b:309:ARG:O	1:b:686:GLU:N	2.36	0.51
1:e:420:VAL:HG11	1:e:638:PHE:HB3	1.91	0.51
1:e:570:ASN:HD21	1:e:607:TRP:HA	1.75	0.51
1:f:490:SER:HA	1:f:534:PHE:CB	2.27	0.51
1:o:420:VAL:HG11	1:o:638:PHE:HB3	1.91	0.51
1:B:570:ASN:HD21	1:B:607:TRP:HA	1.75	0.51
1:E:570:ASN:HD21	1:E:607:TRP:HA	1.75	0.51
1:K:570:ASN:HD21	1:K:607:TRP:HA	1.75	0.51
1:M:563:GLU:OE2	1:M:613:TYR:OH	2.17	0.51
1:N:420:VAL:HG11	1:N:638:PHE:HB3	1.91	0.51
1:P:309:ARG:O	1:P:686:GLU:N	2.36	0.51
1:R:570:ASN:HD21	1:R:607:TRP:HA	1.75	0.51
1:V:436:MET:SD	1:V:471:MET:CE	2.96	0.51
1:W:490:SER:HA	1:W:534:PHE:CB	2.27	0.51
1:Z:436:MET:HE3	1:Z:471:MET:SD	2.49	0.51
1:3:570:ASN:HD21	1:3:607:TRP:HA	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:346:THR:HG22	1:4:647:ILE:HG12	1.91	0.51
1:c:559:MET:SD	1:c:726:PRO:CG	2.95	0.51
1:d:299:GLN:OE1	1:q:698:GLU:N	2.41	0.51
1:f:570:ASN:HD21	1:f:607:TRP:HA	1.75	0.51
1:h:436:MET:SD	1:h:471:MET:CE	2.96	0.51
1:j:570:ASN:HD21	1:j:607:TRP:HA	1.75	0.51
1:k:436:MET:HE3	1:k:471:MET:SD	2.49	0.51
1:p:559:MET:CE	1:p:724:PRO:O	2.55	0.51
1:t:599:GLN:OE1	1:u:598:ASN:ND2	2.38	0.51
1:u:346:THR:HG22	1:u:647:ILE:HG12	1.91	0.51
1:v:277:TYR:CE2	1:v:394:PHE:HD1	2.27	0.51
1:C:277:TYR:CE2	1:C:394:PHE:HD1	2.27	0.51
1:C:346:THR:HG22	1:C:647:ILE:HG12	1.91	0.51
1:D:437:ASN:HB2	1:N:355:VAL:HG13	1.92	0.51
1:Q:309:ARG:O	1:Q:686:GLU:N	2.36	0.51
1:V:277:TYR:CE2	1:V:394:PHE:HD1	2.27	0.51
1:X:570:ASN:HD21	1:X:607:TRP:HA	1.75	0.51
1:3:309:ARG:O	1:3:686:GLU:N	2.36	0.51
1:c:309:ARG:O	1:c:686:GLU:N	2.36	0.51
1:c:693:LYS:HG3	1:d:400:PHE:CE1	2.45	0.51
1:q:276:GLY:HA3	1:q:380:LEU:HD23	1.91	0.51
1:v:548:THR:HG23	1:v:553:VAL:HG11	1.93	0.51
1:A:276:GLY:HA3	1:A:380:LEU:HD23	1.91	0.51
1:G:548:THR:HG23	1:G:553:VAL:HG11	1.93	0.51
1:L:490:SER:HA	1:L:534:PHE:CB	2.28	0.51
1:N:437:ASN:HB2	1:P:355:VAL:HG13	1.92	0.51
1:O:420:VAL:HG11	1:O:638:PHE:HB3	1.91	0.51
1:U:346:THR:HG22	1:U:647:ILE:HG12	1.91	0.51
1:W:563:GLU:OE2	1:W:613:TYR:OH	2.17	0.51
1:2:548:THR:HG23	1:2:553:VAL:HG11	1.93	0.51
1:6:437:ASN:HB2	1:b:355:VAL:HG13	1.92	0.51
1:g:400:PHE:CD1	1:g:400:PHE:N	2.73	0.51
1:g:570:ASN:HD21	1:g:607:TRP:HA	1.75	0.51
1:h:277:TYR:CE2	1:h:394:PHE:HD1	2.27	0.51
1:t:437:ASN:HB2	1:u:355:VAL:HG13	1.92	0.51
1:v:570:ASN:HD21	1:v:607:TRP:HA	1.75	0.51
1:x:276:GLY:HA3	1:x:380:LEU:HD23	1.91	0.51
1:y:570:ASN:HD21	1:y:607:TRP:HA	1.75	0.51
1:A:563:GLU:OE2	1:A:613:TYR:OH	2.17	0.51
1:D:355:VAL:HG13	1:P:437:ASN:HB2	1.92	0.51
1:E:355:VAL:HG13	1:F:437:ASN:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:437:ASN:HB2	1:I:355:VAL:HG13	1.92	0.51
1:H:548:THR:HG23	1:H:553:VAL:HG11	1.93	0.51
1:K:437:ASN:HB2	1:1:355:VAL:HG13	1.92	0.51
1:O:437:ASN:HB2	1:g:355:VAL:HG13	1.92	0.51
1:S:548:THR:HG23	1:S:553:VAL:HG11	1.93	0.51
1:S:721:TYR:HH	1:T:695:TRP:HZ2	1.57	0.51
1:T:379:TYR:OH	1:T:395:TYR:N	2.30	0.51
1:T:548:THR:HG23	1:T:553:VAL:HG11	1.93	0.51
1:2:570:ASN:HD21	1:2:607:TRP:HA	1.75	0.51
1:3:276:GLY:HA3	1:3:380:LEU:HD23	1.91	0.51
1:3:437:ASN:HB2	1:i:355:VAL:HG13	1.93	0.51
1:5:548:THR:HG23	1:5:553:VAL:HG11	1.93	0.51
1:5:563:GLU:OE2	1:5:613:TYR:OH	2.17	0.51
1:6:355:VAL:HG13	1:a:437:ASN:HB2	1.92	0.51
1:c:548:THR:HG23	1:c:553:VAL:HG11	1.93	0.51
1:g:559:MET:SD	1:g:726:PRO:CG	2.95	0.51
1:k:548:THR:HG23	1:k:553:VAL:HG11	1.93	0.51
1:q:563:GLU:OE2	1:q:613:TYR:OH	2.17	0.51
1:y:563:GLU:OE2	1:y:613:TYR:OH	2.17	0.51
1:B:355:VAL:HG13	1:L:437:ASN:HB2	1.92	0.51
1:F:548:THR:HG23	1:F:553:VAL:HG11	1.93	0.51
1:F:570:ASN:HD21	1:F:607:TRP:HA	1.75	0.51
1:O:548:THR:HG23	1:O:553:VAL:HG11	1.93	0.51
1:O:563:GLU:OE2	1:O:613:TYR:OH	2.17	0.51
1:W:420:VAL:HG11	1:W:638:PHE:HB3	1.91	0.51
1:W:548:THR:HG23	1:W:553:VAL:HG11	1.93	0.51
1:X:355:VAL:HG13	1:5:437:ASN:HB2	1.92	0.51
1:X:559:MET:SD	1:X:726:PRO:CG	2.95	0.51
1:4:548:THR:HG23	1:4:553:VAL:HG11	1.93	0.51
1:c:379:TYR:OH	1:c:395:TYR:N	2.30	0.51
1:d:570:ASN:HD21	1:d:607:TRP:HA	1.75	0.51
1:i:437:ASN:HB2	1:j:355:VAL:HG13	1.93	0.51
1:l:570:ASN:HD21	1:l:607:TRP:HA	1.75	0.51
1:o:437:ASN:HB2	1:p:355:VAL:HG13	1.92	0.51
1:p:548:THR:HG23	1:p:553:VAL:HG11	1.93	0.51
1:r:437:ASN:HB2	1:s:355:VAL:HG13	1.93	0.51
1:r:548:THR:HG23	1:r:553:VAL:HG11	1.93	0.51
1:y:437:ASN:HB2	1:z:355:VAL:HG13	1.92	0.51
1:A:548:THR:HG23	1:A:553:VAL:HG11	1.93	0.51
1:A:721:TYR:OH	1:F:695:TRP:HZ2	1.92	0.51
1:B:548:THR:HG23	1:B:553:VAL:HG11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:355:VAL:HG13	1:M:437:ASN:HB2	1.92	0.51
1:C:548:THR:HG23	1:C:553:VAL:HG11	1.93	0.51
1:E:563:GLU:OE2	1:E:613:TYR:OH	2.17	0.51
1:Q:559:MET:SD	1:Q:726:PRO:CG	2.95	0.51
1:U:548:THR:HG23	1:U:553:VAL:HG11	1.93	0.51
1:4:559:MET:SD	1:4:726:PRO:CG	2.95	0.51
1:i:436:MET:CE	1:i:471:MET:HG2	2.27	0.51
1:j:559:MET:SD	1:j:726:PRO:CG	2.95	0.51
1:l:420:VAL:HG11	1:l:638:PHE:HB3	1.91	0.51
1:l:548:THR:HG23	1:l:553:VAL:HG11	1.93	0.51
1:w:355:VAL:HG13	1:x:437:ASN:HB2	1.93	0.51
1:w:436:MET:CE	1:w:471:MET:HG2	2.27	0.51
1:B:598:ASN:ND2	1:L:599:GLN:OE1	2.38	0.51
1:E:437:ASN:HB2	1:Q:355:VAL:HG13	1.93	0.51
1:F:563:GLU:OE2	1:F:613:TYR:OH	2.17	0.51
1:L:548:THR:HG23	1:L:553:VAL:HG11	1.93	0.51
1:Q:379:TYR:OH	1:Q:395:TYR:N	2.30	0.51
1:Q:548:THR:HG23	1:Q:553:VAL:HG11	1.93	0.51
1:T:437:ASN:HB2	1:4:355:VAL:HG13	1.92	0.51
1:T:570:ASN:HD21	1:T:607:TRP:HA	1.75	0.51
1:U:559:MET:SD	1:U:726:PRO:CG	2.95	0.51
1:W:437:ASN:HB2	1:Y:355:VAL:HG13	1.92	0.51
1:W:570:ASN:HD21	1:W:607:TRP:HA	1.75	0.51
1:X:548:THR:HG23	1:X:553:VAL:HG11	1.93	0.51
1:a:355:VAL:HG13	1:b:437:ASN:HB2	1.92	0.51
1:d:548:THR:HG23	1:d:553:VAL:HG11	1.93	0.51
1:l:437:ASN:HB2	1:m:355:VAL:HG13	1.92	0.51
1:q:548:THR:HG23	1:q:553:VAL:HG11	1.93	0.51
1:u:548:THR:HG23	1:u:553:VAL:HG11	1.93	0.51
1:x:548:THR:HG23	1:x:553:VAL:HG11	1.93	0.51
1:K:289:PHE:HB2	1:K:614:LEU:O	2.11	0.51
1:M:570:ASN:HD21	1:M:607:TRP:HA	1.75	0.51
1:P:289:PHE:HB2	1:P:614:LEU:O	2.11	0.51
1:S:379:TYR:OH	1:S:395:TYR:N	2.30	0.51
1:S:437:ASN:HB2	1:U:355:VAL:HG13	1.92	0.51
1:S:570:ASN:HD21	1:S:607:TRP:HA	1.75	0.51
1:U:559:MET:CE	1:U:724:PRO:O	2.55	0.51
1:Z:548:THR:HG23	1:Z:553:VAL:HG11	1.93	0.51
1:3:548:THR:HG23	1:3:553:VAL:HG11	1.93	0.51
1:b:289:PHE:HB2	1:b:614:LEU:O	2.11	0.51
1:c:400:PHE:CE1	1:e:693:LYS:HG3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:548:THR:HG23	1:g:553:VAL:HG11	1.93	0.51
1:o:548:THR:HG23	1:o:553:VAL:HG11	1.93	0.51
1:t:548:THR:HG23	1:t:553:VAL:HG11	1.93	0.51
1:y:289:PHE:HB2	1:y:614:LEU:O	2.11	0.51
1:M:289:PHE:HB2	1:M:614:LEU:O	2.12	0.50
1:O:291:CYS:SG	1:O:364:LEU:HB2	2.52	0.50
1:O:355:VAL:HG13	1:h:437:ASN:HB2	1.92	0.50
1:R:289:PHE:HB2	1:R:614:LEU:O	2.11	0.50
1:e:563:GLU:OE2	1:e:613:TYR:OH	2.17	0.50
1:f:289:PHE:HB2	1:f:614:LEU:O	2.11	0.50
1:g:289:PHE:HB2	1:g:614:LEU:O	2.11	0.50
1:j:548:THR:HG23	1:j:553:VAL:HG11	1.93	0.50
1:q:437:ASN:HB2	1:r:355:VAL:HG13	1.92	0.50
1:t:289:PHE:HB2	1:t:614:LEU:O	2.12	0.50
1:z:563:GLU:OE2	1:z:613:TYR:OH	2.17	0.50
1:C:570:ASN:HD21	1:C:607:TRP:HA	1.75	0.50
1:E:291:CYS:SG	1:E:364:LEU:HB2	2.52	0.50
1:E:693:LYS:HG3	1:Q:400:PHE:CE1	2.46	0.50
1:I:291:CYS:SG	1:I:364:LEU:HB2	2.52	0.50
1:L:291:CYS:SG	1:L:364:LEU:HB2	2.52	0.50
1:M:548:THR:HG23	1:M:553:VAL:HG11	1.93	0.50
1:O:341:THR:HG22	1:O:406:ARG:HG2	1.94	0.50
1:P:291:CYS:SG	1:P:364:LEU:HB2	2.52	0.50
1:P:559:MET:SD	1:P:726:PRO:CG	2.95	0.50
1:S:291:CYS:SG	1:S:364:LEU:HB2	2.52	0.50
1:V:437:ASN:HB2	1:5:355:VAL:HG13	1.92	0.50
1:Z:355:VAL:HG13	1:w:437:ASN:HB2	1.93	0.50
1:Z:400:PHE:CE1	1:w:693:LYS:HG3	2.47	0.50
1:3:289:PHE:HB2	1:3:614:LEU:O	2.12	0.50
1:5:291:CYS:SG	1:5:364:LEU:HB2	2.52	0.50
1:5:341:THR:HG22	1:5:406:ARG:HG2	1.94	0.50
1:6:548:THR:HG23	1:6:553:VAL:HG11	1.93	0.50
1:b:559:MET:SD	1:b:726:PRO:CG	2.95	0.50
1:c:355:VAL:HG13	1:e:437:ASN:HB2	1.93	0.50
1:e:291:CYS:SG	1:e:364:LEU:HB2	2.52	0.50
1:f:436:MET:CE	1:f:471:MET:HG2	2.27	0.50
1:m:559:MET:SD	1:m:726:PRO:CG	2.95	0.50
1:o:599:GLN:OE1	1:p:598:ASN:ND2	2.38	0.50
1:q:289:PHE:HB2	1:q:614:LEU:O	2.11	0.50
1:s:559:MET:CE	1:s:724:PRO:O	2.55	0.50
1:t:570:ASN:HD21	1:t:607:TRP:HA	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:570:ASN:HD21	1:u:607:TRP:HA	1.75	0.50
1:x:289:PHE:HB2	1:x:614:LEU:O	2.11	0.50
1:A:289:PHE:HB2	1:A:614:LEU:O	2.11	0.50
1:L:289:PHE:HB2	1:L:614:LEU:O	2.11	0.50
1:N:548:THR:HG23	1:N:553:VAL:HG11	1.93	0.50
1:R:436:MET:CE	1:R:471:MET:HG2	2.27	0.50
1:T:291:CYS:SG	1:T:364:LEU:HB2	2.52	0.50
1:T:451:ILE:HG13	1:T:453:GLY:H	1.77	0.50
1:U:291:CYS:SG	1:U:364:LEU:HB2	2.52	0.50
1:X:289:PHE:HB2	1:X:614:LEU:O	2.12	0.50
1:Z:559:MET:SD	1:Z:726:PRO:CG	2.95	0.50
1:b:291:CYS:SG	1:b:364:LEU:HB2	2.52	0.50
1:c:693:LYS:HE2	1:d:400:PHE:HD1	1.74	0.50
1:h:289:PHE:HB2	1:h:614:LEU:O	2.11	0.50
1:i:570:ASN:HD21	1:i:607:TRP:HA	1.75	0.50
1:i:693:LYS:HG3	1:j:400:PHE:CE1	2.47	0.50
1:k:291:CYS:SG	1:k:364:LEU:HB2	2.52	0.50
1:o:291:CYS:SG	1:o:364:LEU:HB2	2.52	0.50
1:q:559:MET:SD	1:q:726:PRO:CG	2.95	0.50
1:s:291:CYS:SG	1:s:364:LEU:HB2	2.52	0.50
1:w:291:CYS:SG	1:w:364:LEU:HB2	2.52	0.50
1:w:570:ASN:HD21	1:w:607:TRP:HA	1.75	0.50
1:8:548:THR:HG23	1:8:553:VAL:HG11	1.93	0.50
1:A:291:CYS:SG	1:A:364:LEU:HB2	2.52	0.50
1:A:437:ASN:HB2	1:G:355:VAL:HG13	1.92	0.50
1:B:291:CYS:SG	1:B:364:LEU:HB2	2.52	0.50
1:E:548:THR:HG23	1:E:553:VAL:HG11	1.93	0.50
1:I:559:MET:CE	1:I:724:PRO:O	2.55	0.50
1:K:548:THR:HG23	1:K:553:VAL:HG11	1.93	0.50
1:N:289:PHE:HB2	1:N:614:LEU:O	2.11	0.50
1:V:548:THR:HG23	1:V:553:VAL:HG11	1.93	0.50
1:2:341:THR:HG22	1:2:406:ARG:HG2	1.94	0.50
1:4:291:CYS:SG	1:4:364:LEU:HB2	2.52	0.50
1:6:289:PHE:HB2	1:6:614:LEU:O	2.11	0.50
1:e:548:THR:HG23	1:e:553:VAL:HG11	1.93	0.50
1:f:341:THR:HG22	1:f:406:ARG:HG2	1.94	0.50
1:i:291:CYS:SG	1:i:364:LEU:HB2	2.52	0.50
1:l:289:PHE:HB2	1:l:614:LEU:O	2.11	0.50
1:o:289:PHE:HB2	1:o:614:LEU:O	2.12	0.50
1:p:291:CYS:SG	1:p:364:LEU:HB2	2.52	0.50
1:v:341:THR:HG22	1:v:406:ARG:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:548:THR:HG23	1:y:553:VAL:HG11	1.93	0.50
1:z:570:ASN:HD21	1:z:607:TRP:HA	1.75	0.50
1:7:548:THR:HG23	1:7:553:VAL:HG11	1.93	0.50
1:B:437:ASN:HB2	1:J:355:VAL:HG13	1.92	0.50
1:B:451:ILE:HG13	1:B:453:GLY:H	1.77	0.50
1:C:400:PHE:CE1	1:M:693:LYS:HG3	2.47	0.50
1:F:291:CYS:SG	1:F:364:LEU:HB2	2.52	0.50
1:H:291:CYS:SG	1:H:364:LEU:HB2	2.52	0.50
1:I:289:PHE:HB2	1:I:614:LEU:O	2.11	0.50
1:J:291:CYS:SG	1:J:364:LEU:HB2	2.52	0.50
1:J:599:GLN:OE1	1:L:598:ASN:ND2	2.38	0.50
1:R:341:THR:HG22	1:R:406:ARG:HG2	1.94	0.50
1:S:451:ILE:HG13	1:S:453:GLY:H	1.77	0.50
1:U:289:PHE:HB2	1:U:614:LEU:O	2.11	0.50
1:V:225:SER:OG	1:V:319:ASN:N	2.45	0.50
1:V:289:PHE:HB2	1:V:614:LEU:O	2.12	0.50
1:W:289:PHE:HB2	1:W:614:LEU:O	2.11	0.50
1:Z:451:ILE:HG13	1:Z:453:GLY:H	1.77	0.50
1:Z:554:ASP:OD1	1:w:462:LYS:NZ	2.29	0.50
1:Z:693:LYS:HG3	1:x:400:PHE:CE1	2.47	0.50
1:4:289:PHE:HB2	1:4:614:LEU:O	2.11	0.50
1:c:570:ASN:HD21	1:c:607:TRP:HA	1.75	0.50
1:d:291:CYS:SG	1:d:364:LEU:HB2	2.52	0.50
1:h:225:SER:OG	1:h:319:ASN:N	2.45	0.50
1:n:291:CYS:SG	1:n:364:LEU:HB2	2.52	0.50
1:n:355:VAL:HG13	1:p:437:ASN:HB2	1.92	0.50
1:n:400:PHE:CE1	1:p:693:LYS:HG3	2.47	0.50
1:n:559:MET:SD	1:n:726:PRO:CG	2.95	0.50
1:n:599:GLN:OE1	1:o:598:ASN:ND2	2.38	0.50
1:p:451:ILE:HG13	1:p:453:GLY:H	1.77	0.50
1:q:291:CYS:SG	1:q:364:LEU:HB2	2.52	0.50
1:s:289:PHE:HB2	1:s:614:LEU:O	2.11	0.50
1:w:400:PHE:HD1	1:x:693:LYS:HE2	1.77	0.50
1:B:693:LYS:HG3	1:J:400:PHE:CE1	2.47	0.50
1:C:437:ASN:HB2	1:2:355:VAL:HG13	1.92	0.50
1:F:355:VAL:HG13	1:Q:437:ASN:HB2	1.93	0.50
1:H:298:TRP:CG	1:H:614:LEU:HD12	2.47	0.50
1:H:693:LYS:HG3	1:W:400:PHE:CE1	2.47	0.50
1:M:341:THR:HG22	1:M:406:ARG:HG2	1.94	0.50
1:O:693:LYS:HG3	1:g:400:PHE:CE1	2.47	0.50
1:R:548:THR:HG23	1:R:553:VAL:HG11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:451:ILE:HG13	1:V:453:GLY:H	1.77	0.50
1:X:225:SER:OG	1:X:319:ASN:N	2.45	0.50
1:Y:451:ILE:HG13	1:Y:453:GLY:H	1.77	0.50
1:1:570:ASN:HD21	1:1:607:TRP:HA	1.75	0.50
1:2:298:TRP:CG	1:2:614:LEU:HD12	2.47	0.50
1:3:355:VAL:HG13	1:j:437:ASN:HB2	1.92	0.50
1:3:400:PHE:CE1	1:j:693:LYS:HG3	2.47	0.50
1:6:341:THR:HG22	1:6:406:ARG:HG2	1.94	0.50
1:d:695:TRP:HB3	1:e:394:PHE:O	2.11	0.50
1:g:225:SER:OG	1:g:319:ASN:N	2.45	0.50
1:h:451:ILE:HG13	1:h:453:GLY:H	1.77	0.50
1:h:548:THR:HG23	1:h:553:VAL:HG11	1.93	0.50
1:k:298:TRP:CG	1:k:614:LEU:HD12	2.47	0.50
1:k:693:LYS:HG3	1:l:400:PHE:CE1	2.47	0.50
1:l:379:TYR:OH	1:l:395:TYR:N	2.30	0.50
1:m:291:CYS:SG	1:m:364:LEU:HB2	2.52	0.50
1:n:693:LYS:HG3	1:o:400:PHE:CE1	2.47	0.50
1:t:341:THR:HG22	1:t:406:ARG:HG2	1.94	0.50
1:G:291:CYS:SG	1:G:364:LEU:HB2	2.52	0.50
1:H:341:THR:HG22	1:H:406:ARG:HG2	1.94	0.50
1:I:548:THR:HG23	1:I:553:VAL:HG11	1.93	0.50
1:J:298:TRP:CG	1:J:614:LEU:HD12	2.47	0.50
1:K:341:THR:HG22	1:K:406:ARG:HG2	1.94	0.50
1:L:570:ASN:HD21	1:L:607:TRP:HA	1.75	0.50
1:N:451:ILE:HG13	1:N:453:GLY:H	1.77	0.50
1:Q:570:ASN:HD21	1:Q:607:TRP:HA	1.75	0.50
1:R:298:TRP:CG	1:R:614:LEU:HD12	2.47	0.50
1:S:341:THR:HG22	1:S:406:ARG:HG2	1.94	0.50
1:S:693:LYS:HG3	1:U:400:PHE:CE1	2.47	0.50
1:W:341:THR:HG22	1:W:406:ARG:HG2	1.94	0.50
1:W:341:THR:OG1	1:W:652:THR:OG1	2.25	0.50
1:X:400:PHE:CE1	1:5:693:LYS:HG3	2.47	0.50
1:Y:291:CYS:SG	1:Y:364:LEU:HB2	2.52	0.50
1:Y:548:THR:HG23	1:Y:553:VAL:HG11	1.93	0.50
1:Z:298:TRP:CG	1:Z:614:LEU:HD12	2.47	0.50
1:Z:437:ASN:HB2	1:x:355:VAL:HG13	1.92	0.50
1:2:289:PHE:HB2	1:2:614:LEU:O	2.11	0.50
1:2:291:CYS:SG	1:2:364:LEU:HB2	2.52	0.50
1:6:451:ILE:HG13	1:6:453:GLY:H	1.77	0.50
1:f:298:TRP:CG	1:f:614:LEU:HD12	2.47	0.50
1:f:548:THR:HG23	1:f:553:VAL:HG11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:291:CYS:SG	1:g:364:LEU:HB2	2.52	0.50
1:g:341:THR:HG22	1:g:406:ARG:HG2	1.94	0.50
1:h:291:CYS:SG	1:h:364:LEU:HB2	2.52	0.50
1:j:298:TRP:CG	1:j:614:LEU:HD12	2.47	0.50
1:m:289:PHE:HB2	1:m:614:LEU:O	2.11	0.50
1:m:451:ILE:HG13	1:m:453:GLY:H	1.77	0.50
1:m:548:THR:HG23	1:m:553:VAL:HG11	1.93	0.50
1:n:298:TRP:CG	1:n:614:LEU:HD12	2.47	0.50
1:r:291:CYS:SG	1:r:364:LEU:HB2	2.52	0.50
1:s:548:THR:HG23	1:s:553:VAL:HG11	1.93	0.50
1:t:291:CYS:SG	1:t:364:LEU:HB2	2.52	0.50
1:t:693:LYS:HG3	1:u:400:PHE:CE1	2.47	0.50
1:u:559:MET:SD	1:u:726:PRO:CG	2.95	0.50
1:v:289:PHE:HB2	1:v:614:LEU:O	2.12	0.50
1:v:298:TRP:CG	1:v:614:LEU:HD12	2.47	0.50
1:w:548:THR:HG23	1:w:553:VAL:HG11	1.93	0.50
1:y:298:TRP:CG	1:y:614:LEU:HD12	2.47	0.50
1:y:341:THR:HG22	1:y:406:ARG:HG2	1.94	0.50
1:z:289:PHE:HB2	1:z:614:LEU:O	2.11	0.50
1:C:559:MET:SD	1:C:726:PRO:CG	2.95	0.50
1:D:291:CYS:SG	1:D:364:LEU:HB2	2.52	0.50
1:D:298:TRP:CG	1:D:614:LEU:HD12	2.47	0.50
1:G:341:THR:HG22	1:G:406:ARG:HG2	1.94	0.50
1:I:298:TRP:CG	1:I:614:LEU:HD12	2.47	0.50
1:J:693:LYS:HG3	1:L:400:PHE:CE1	2.47	0.50
1:K:291:CYS:SG	1:K:364:LEU:HB2	2.52	0.50
1:K:298:TRP:CG	1:K:614:LEU:HD12	2.47	0.50
1:K:341:THR:HG1	1:K:652:THR:HG1	1.53	0.50
1:K:563:GLU:OE2	1:K:613:TYR:OH	2.17	0.50
1:N:341:THR:HG22	1:N:406:ARG:HG2	1.94	0.50
1:O:400:PHE:CE1	1:h:693:LYS:HG3	2.47	0.50
1:Q:341:THR:HG22	1:Q:406:ARG:HG2	1.94	0.50
1:T:341:THR:HG22	1:T:406:ARG:HG2	1.94	0.50
1:T:693:LYS:HG3	1:4:400:PHE:CE1	2.47	0.50
1:U:298:TRP:CG	1:U:614:LEU:HD12	2.47	0.50
1:X:341:THR:HG22	1:X:406:ARG:HG2	1.94	0.50
1:Y:559:MET:SD	1:Y:726:PRO:CG	2.95	0.50
1:Z:291:CYS:SG	1:Z:364:LEU:HB2	2.52	0.50
1:1:289:PHE:HB2	1:1:614:LEU:O	2.11	0.50
1:1:548:THR:HG23	1:1:553:VAL:HG11	1.93	0.50
1:3:225:SER:OG	1:3:319:ASN:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:298:TRP:CG	1:4:614:LEU:HD12	2.47	0.50
1:6:400:PHE:CE1	1:a:693:LYS:HG3	2.47	0.50
1:c:341:THR:HG22	1:c:406:ARG:HG2	1.94	0.50
1:c:395:TYR:OH	1:e:735:ASN:ND2	2.45	0.50
1:i:548:THR:HG23	1:i:553:VAL:HG11	1.93	0.50
1:j:451:ILE:HG13	1:j:453:GLY:H	1.77	0.50
1:k:341:THR:HG22	1:k:406:ARG:HG2	1.94	0.50
1:l:341:THR:HG22	1:l:406:ARG:HG2	1.94	0.50
1:s:298:TRP:CG	1:s:614:LEU:HD12	2.47	0.50
1:u:437:ASN:HB2	1:v:355:VAL:HG13	1.92	0.50
1:v:291:CYS:SG	1:v:364:LEU:HB2	2.52	0.50
1:w:400:PHE:CE1	1:x:693:LYS:HG3	2.46	0.50
1:w:451:ILE:HG13	1:w:453:GLY:H	1.77	0.50
1:x:225:SER:OG	1:x:319:ASN:N	2.45	0.50
1:z:548:THR:HG23	1:z:553:VAL:HG11	1.93	0.50
1:A:400:PHE:CE1	1:I:693:LYS:HG3	2.47	0.50
1:A:559:MET:SD	1:A:726:PRO:CG	2.95	0.50
1:D:341:THR:HG22	1:D:406:ARG:HG2	1.94	0.50
1:G:289:PHE:HB2	1:G:614:LEU:O	2.12	0.50
1:G:559:MET:SD	1:G:726:PRO:CG	2.95	0.50
1:M:291:CYS:SG	1:M:364:LEU:HB2	2.52	0.50
1:P:490:SER:HA	1:P:534:PHE:CB	2.27	0.50
1:P:548:THR:HG23	1:P:553:VAL:HG11	1.93	0.50
1:T:289:PHE:HB2	1:T:614:LEU:O	2.12	0.50
1:V:291:CYS:SG	1:V:364:LEU:HB2	2.52	0.50
1:V:298:TRP:CG	1:V:614:LEU:HD12	2.47	0.50
1:V:341:THR:HG22	1:V:406:ARG:HG2	1.94	0.50
1:V:693:LYS:HG3	1:5:400:PHE:CE1	2.47	0.50
1:X:451:ILE:HG13	1:X:453:GLY:H	1.77	0.50
1:Y:289:PHE:HB2	1:Y:614:LEU:O	2.12	0.50
1:6:481:GLY:HA3	1:6:607:TRP:HB3	1.94	0.50
1:a:298:TRP:CG	1:a:614:LEU:HD12	2.47	0.50
1:a:341:THR:HG22	1:a:406:ARG:HG2	1.94	0.50
1:d:451:ILE:HG13	1:d:453:GLY:H	1.77	0.50
1:g:451:ILE:HG13	1:g:453:GLY:H	1.77	0.50
1:h:298:TRP:CG	1:h:614:LEU:HD12	2.47	0.50
1:i:451:ILE:HG13	1:i:453:GLY:H	1.77	0.50
1:k:451:ILE:HG13	1:k:453:GLY:H	1.77	0.50
1:o:570:ASN:HD21	1:o:607:TRP:HA	1.75	0.50
1:r:341:THR:HG22	1:r:406:ARG:HG2	1.94	0.50
1:u:291:CYS:SG	1:u:364:LEU:HB2	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:289:PHE:HB2	1:7:614:LEU:O	2.12	0.50
1:7:291:CYS:SG	1:7:364:LEU:HB2	2.52	0.50
1:8:289:PHE:HB2	1:8:614:LEU:O	2.12	0.50
1:8:291:CYS:SG	1:8:364:LEU:HB2	2.52	0.50
1:B:298:TRP:CG	1:B:614:LEU:HD12	2.47	0.49
1:C:291:CYS:SG	1:C:364:LEU:HB2	2.52	0.49
1:C:693:LYS:HG3	1:2:400:PHE:CE1	2.47	0.49
1:F:379:TYR:OH	1:F:395:TYR:N	2.29	0.49
1:F:451:ILE:HG13	1:F:453:GLY:H	1.77	0.49
1:H:451:ILE:HG13	1:H:453:GLY:H	1.77	0.49
1:J:289:PHE:HB2	1:J:614:LEU:O	2.12	0.49
1:J:559:MET:SD	1:J:726:PRO:CG	2.95	0.49
1:L:341:THR:HG22	1:L:406:ARG:HG2	1.94	0.49
1:M:298:TRP:CG	1:M:614:LEU:HD12	2.47	0.49
1:N:481:GLY:HA3	1:N:607:TRP:HB3	1.94	0.49
1:O:289:PHE:HB2	1:O:614:LEU:O	2.11	0.49
1:S:289:PHE:HB2	1:S:614:LEU:O	2.12	0.49
1:W:298:TRP:CG	1:W:614:LEU:HD12	2.47	0.49
1:5:289:PHE:HB2	1:5:614:LEU:O	2.11	0.49
1:a:291:CYS:SG	1:a:364:LEU:HB2	2.52	0.49
1:b:298:TRP:CG	1:b:614:LEU:HD12	2.47	0.49
1:b:341:THR:HG22	1:b:406:ARG:HG2	1.94	0.49
1:h:341:THR:HG22	1:h:406:ARG:HG2	1.93	0.49
1:i:341:THR:HG22	1:i:406:ARG:HG2	1.94	0.49
1:j:291:CYS:SG	1:j:364:LEU:HB2	2.52	0.49
1:j:481:GLY:HA3	1:j:607:TRP:HB3	1.94	0.49
1:l:298:TRP:CG	1:l:614:LEU:HD12	2.47	0.49
1:o:341:THR:HG22	1:o:406:ARG:HG2	1.94	0.49
1:p:298:TRP:CG	1:p:614:LEU:HD12	2.47	0.49
1:q:400:PHE:CE1	1:s:693:LYS:HG3	2.47	0.49
1:r:289:PHE:HB2	1:r:614:LEU:O	2.12	0.49
1:r:559:MET:SD	1:r:726:PRO:CG	2.95	0.49
1:t:298:TRP:CG	1:t:614:LEU:HD12	2.47	0.49
1:x:291:CYS:SG	1:x:364:LEU:HB2	2.52	0.49
1:y:291:CYS:SG	1:y:364:LEU:HB2	2.52	0.49
1:7:225:SER:OG	1:7:319:ASN:N	2.45	0.49
1:8:225:SER:OG	1:8:319:ASN:N	2.45	0.49
1:B:289:PHE:HB2	1:B:614:LEU:O	2.11	0.49
1:D:693:LYS:HG3	1:N:400:PHE:CE1	2.47	0.49
1:E:298:TRP:CG	1:E:614:LEU:HD12	2.47	0.49
1:E:400:PHE:CE1	1:F:693:LYS:HG3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:436:MET:CE	1:F:471:MET:HG2	2.27	0.49
1:I:481:GLY:HA3	1:I:607:TRP:HB3	1.95	0.49
1:J:451:ILE:HG13	1:J:453:GLY:H	1.77	0.49
1:P:298:TRP:CG	1:P:614:LEU:HD12	2.47	0.49
1:P:341:THR:HG22	1:P:406:ARG:HG2	1.94	0.49
1:W:379:TYR:OH	1:W:395:TYR:N	2.30	0.49
1:X:291:CYS:SG	1:X:364:LEU:HB2	2.52	0.49
1:Z:481:GLY:HA3	1:Z:607:TRP:HB3	1.94	0.49
1:1:451:ILE:HG13	1:1:453:GLY:H	1.77	0.49
1:3:291:CYS:SG	1:3:364:LEU:HB2	2.52	0.49
1:3:693:LYS:HE2	1:i:400:PHE:HD1	1.77	0.49
1:4:451:ILE:HG13	1:4:453:GLY:H	1.77	0.49
1:b:548:THR:HG23	1:b:553:VAL:HG11	1.93	0.49
1:d:379:TYR:OH	1:d:395:TYR:N	2.30	0.49
1:f:291:CYS:SG	1:f:364:LEU:HB2	2.52	0.49
1:n:289:PHE:HB2	1:n:614:LEU:O	2.12	0.49
1:n:451:ILE:HG13	1:n:453:GLY:H	1.77	0.49
1:n:481:GLY:HA3	1:n:607:TRP:HB3	1.95	0.49
1:s:481:GLY:HA3	1:s:607:TRP:HB3	1.94	0.49
1:w:341:THR:HG22	1:w:406:ARG:HG2	1.94	0.49
1:y:693:LYS:HG3	1:z:400:PHE:CE1	2.47	0.49
1:z:451:ILE:HG13	1:z:453:GLY:H	1.77	0.49
1:7:451:ILE:HG13	1:7:453:GLY:H	1.77	0.49
1:8:451:ILE:HG13	1:8:453:GLY:H	1.77	0.49
1:A:451:ILE:HG13	1:A:453:GLY:H	1.77	0.49
1:D:559:MET:SD	1:D:726:PRO:CG	2.95	0.49
1:G:451:ILE:HG13	1:G:453:GLY:H	1.77	0.49
1:H:735:ASN:ND2	1:W:395:TYR:OH	2.45	0.49
1:J:481:GLY:HA3	1:J:607:TRP:HB3	1.95	0.49
1:K:693:LYS:HG3	1:1:400:PHE:CE1	2.47	0.49
1:S:225:SER:OG	1:S:319:ASN:N	2.45	0.49
1:W:693:LYS:HG3	1:Y:400:PHE:CE1	2.47	0.49
1:Y:341:THR:HG22	1:Y:406:ARG:HG2	1.94	0.49
1:1:225:SER:OG	1:1:319:ASN:N	2.45	0.49
1:2:481:GLY:HA3	1:2:607:TRP:HB3	1.95	0.49
1:3:693:LYS:HG3	1:i:400:PHE:CE1	2.46	0.49
1:a:559:MET:SD	1:a:726:PRO:CG	2.95	0.49
1:e:298:TRP:CG	1:e:614:LEU:HD12	2.47	0.49
1:e:341:THR:HG22	1:e:406:ARG:HG2	1.94	0.49
1:g:437:ASN:HB2	1:h:355:VAL:HG13	1.92	0.49
1:l:693:LYS:HG3	1:m:400:PHE:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:341:THR:HG22	1:m:406:ARG:HG2	1.94	0.49
1:o:451:ILE:HG13	1:o:453:GLY:H	1.77	0.49
1:u:451:ILE:HG13	1:u:453:GLY:H	1.77	0.49
1:u:693:LYS:HG3	1:v:400:PHE:CE1	2.47	0.49
1:v:481:GLY:HA3	1:v:607:TRP:HB3	1.95	0.49
1:y:379:TYR:OH	1:y:395:TYR:N	2.30	0.49
1:A:693:LYS:HG3	1:G:400:PHE:CE1	2.47	0.49
1:D:225:SER:OG	1:D:319:ASN:N	2.45	0.49
1:E:341:THR:HG22	1:E:406:ARG:HG2	1.93	0.49
1:E:735:ASN:ND2	1:Q:395:TYR:OH	2.46	0.49
1:F:395:TYR:OH	1:Q:735:ASN:ND2	2.45	0.49
1:F:400:PHE:CE1	1:Q:693:LYS:HG3	2.47	0.49
1:H:400:PHE:CE1	1:Y:693:LYS:HG3	2.47	0.49
1:J:341:THR:HG22	1:J:406:ARG:HG2	1.93	0.49
1:N:298:TRP:CG	1:N:614:LEU:HD12	2.47	0.49
1:R:291:CYS:SG	1:R:364:LEU:HB2	2.52	0.49
1:S:735:ASN:ND2	1:U:395:TYR:OH	2.46	0.49
1:U:379:TYR:OH	1:U:395:TYR:N	2.30	0.49
1:U:451:ILE:HG13	1:U:453:GLY:H	1.77	0.49
1:V:355:VAL:HG13	1:X:437:ASN:HB2	1.92	0.49
1:1:341:THR:HG22	1:1:406:ARG:HG2	1.94	0.49
1:4:563:GLU:OE2	1:4:613:TYR:OH	2.17	0.49
1:d:341:THR:HG22	1:d:406:ARG:HG2	1.93	0.49
1:d:436:MET:CE	1:d:471:MET:HG2	2.27	0.49
1:d:702:THR:HG22	1:q:700:GLN:HB3	1.93	0.49
1:d:721:TYR:HH	1:q:695:TRP:HZ2	1.59	0.49
1:k:289:PHE:HB2	1:k:614:LEU:O	2.12	0.49
1:k:400:PHE:CE1	1:m:693:LYS:HG3	2.47	0.49
1:k:735:ASN:ND2	1:l:395:TYR:OH	2.45	0.49
1:p:289:PHE:HB2	1:p:614:LEU:O	2.11	0.49
1:q:451:ILE:HG13	1:q:453:GLY:H	1.77	0.49
1:r:451:ILE:HG13	1:r:453:GLY:H	1.77	0.49
1:r:693:LYS:HG3	1:s:400:PHE:CE1	2.47	0.49
1:w:289:PHE:HB2	1:w:614:LEU:O	2.12	0.49
1:w:298:TRP:CG	1:w:614:LEU:HD12	2.47	0.49
1:z:225:SER:OG	1:z:319:ASN:N	2.45	0.49
1:z:291:CYS:SG	1:z:364:LEU:HB2	2.52	0.49
1:A:341:THR:HG22	1:A:406:ARG:HG2	1.94	0.49
1:B:400:PHE:CE1	1:L:693:LYS:HG3	2.47	0.49
1:D:400:PHE:CE1	1:P:693:LYS:HG3	2.47	0.49
1:E:289:PHE:HB2	1:E:614:LEU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:341:THR:HG22	1:F:406:ARG:HG2	1.94	0.49
1:G:298:TRP:CG	1:G:614:LEU:HD12	2.47	0.49
1:L:451:ILE:HG13	1:L:453:GLY:H	1.77	0.49
1:N:693:LYS:HG3	1:P:400:PHE:CE1	2.47	0.49
1:R:395:TYR:OH	1:U:735:ASN:ND2	2.46	0.49
1:R:400:PHE:CE1	1:U:693:LYS:HG3	2.47	0.49
1:R:451:ILE:HG13	1:R:453:GLY:H	1.77	0.49
1:T:735:ASN:ND2	1:4:395:TYR:OH	2.46	0.49
1:1:291:CYS:SG	1:1:364:LEU:HB2	2.52	0.49
1:1:693:LYS:HG3	1:8:400:PHE:CE1	2.47	0.49
1:3:341:THR:HG22	1:3:406:ARG:HG2	1.93	0.49
1:4:735:ASN:ND2	1:f:395:TYR:OH	2.46	0.49
1:5:451:ILE:HG13	1:5:453:GLY:H	1.77	0.49
1:6:291:CYS:SG	1:6:364:LEU:HB2	2.52	0.49
1:6:298:TRP:CG	1:6:614:LEU:HD12	2.47	0.49
1:6:693:LYS:HG3	1:b:400:PHE:CE1	2.47	0.49
1:a:225:SER:OG	1:a:319:ASN:N	2.45	0.49
1:a:451:ILE:HG13	1:a:453:GLY:H	1.77	0.49
1:d:298:TRP:CG	1:d:614:LEU:HD12	2.47	0.49
1:i:289:PHE:HB2	1:i:614:LEU:O	2.12	0.49
1:i:735:ASN:ND2	1:j:395:TYR:OH	2.45	0.49
1:j:289:PHE:HB2	1:j:614:LEU:O	2.11	0.49
1:n:341:THR:HG22	1:n:406:ARG:HG2	1.93	0.49
1:q:341:THR:HG22	1:q:406:ARG:HG2	1.94	0.49
1:r:298:TRP:CG	1:r:614:LEU:HD12	2.47	0.49
1:s:451:ILE:HG13	1:s:453:GLY:H	1.77	0.49
1:v:451:ILE:HG13	1:v:453:GLY:H	1.77	0.49
1:z:341:THR:HG22	1:z:406:ARG:HG2	1.94	0.49
1:B:400:PHE:HD1	1:L:693:LYS:HE2	1.78	0.49
1:C:298:TRP:CG	1:C:614:LEU:HD12	2.47	0.49
1:E:400:PHE:HD1	1:F:693:LYS:HE2	1.78	0.49
1:F:298:TRP:CG	1:F:614:LEU:HD12	2.47	0.49
1:H:289:PHE:HB2	1:H:614:LEU:O	2.12	0.49
1:K:395:TYR:OH	1:8:735:ASN:ND2	2.46	0.49
1:P:379:TYR:HH	1:P:395:TYR:H	1.57	0.49
1:Q:291:CYS:SG	1:Q:364:LEU:HB2	2.52	0.49
1:Q:451:ILE:HG13	1:Q:453:GLY:H	1.77	0.49
1:S:298:TRP:CG	1:S:614:LEU:HD12	2.47	0.49
1:Z:289:PHE:HB2	1:Z:614:LEU:O	2.12	0.49
1:Z:395:TYR:OH	1:w:735:ASN:ND2	2.46	0.49
1:2:451:ILE:HG13	1:2:453:GLY:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:298:TRP:CG	1:3:614:LEU:HD12	2.47	0.49
1:3:481:GLY:HA3	1:3:607:TRP:HB3	1.95	0.49
1:4:379:TYR:OH	1:4:395:TYR:N	2.30	0.49
1:4:693:LYS:HG3	1:f:400:PHE:CE1	2.47	0.49
1:a:400:PHE:CE1	1:b:693:LYS:HG3	2.47	0.49
1:a:481:GLY:HA3	1:a:607:TRP:HB3	1.95	0.49
1:b:451:ILE:HG13	1:b:453:GLY:H	1.77	0.49
1:b:490:SER:HA	1:b:534:PHE:CB	2.28	0.49
1:c:291:CYS:SG	1:c:364:LEU:HB2	2.52	0.49
1:e:289:PHE:HB2	1:e:614:LEU:O	2.11	0.49
1:o:481:GLY:HA3	1:o:607:TRP:HB3	1.94	0.49
1:o:693:LYS:HE2	1:p:400:PHE:HD1	1.78	0.49
1:u:298:TRP:CG	1:u:614:LEU:HD12	2.47	0.49
1:u:481:GLY:HA3	1:u:607:TRP:HB3	1.94	0.49
1:y:451:ILE:HG13	1:y:453:GLY:H	1.77	0.49
1:B:481:GLY:HA3	1:B:607:TRP:HB3	1.94	0.49
1:C:289:PHE:HB2	1:C:614:LEU:O	2.11	0.49
1:C:395:TYR:OH	1:M:735:ASN:ND2	2.46	0.49
1:C:451:ILE:HG13	1:C:453:GLY:H	1.77	0.49
1:C:481:GLY:HA3	1:C:607:TRP:HB3	1.94	0.49
1:D:289:PHE:HB2	1:D:614:LEU:O	2.12	0.49
1:D:451:ILE:HG13	1:D:453:GLY:H	1.77	0.49
1:D:481:GLY:HA3	1:D:607:TRP:HB3	1.95	0.49
1:D:548:THR:HG23	1:D:553:VAL:HG11	1.93	0.49
1:F:289:PHE:HB2	1:F:614:LEU:O	2.11	0.49
1:G:657:ASP:O	1:G:657:ASP:OD1	2.31	0.49
1:I:341:THR:HG22	1:I:406:ARG:HG2	1.94	0.49
1:I:451:ILE:HG13	1:I:453:GLY:H	1.77	0.49
1:K:400:PHE:CE1	1:8:693:LYS:HG3	2.47	0.49
1:L:379:TYR:HH	1:L:395:TYR:H	1.56	0.49
1:L:657:ASP:O	1:L:657:ASP:OD1	2.31	0.49
1:N:291:CYS:SG	1:N:364:LEU:HB2	2.52	0.49
1:O:451:ILE:HG13	1:O:453:GLY:H	1.77	0.49
1:P:451:ILE:HG13	1:P:453:GLY:H	1.77	0.49
1:P:481:GLY:HA3	1:P:607:TRP:HB3	1.95	0.49
1:S:481:GLY:HA3	1:S:607:TRP:HB3	1.95	0.49
1:S:693:LYS:HE2	1:U:400:PHE:HD1	1.78	0.49
1:T:298:TRP:CG	1:T:614:LEU:HD12	2.47	0.49
1:T:481:GLY:HA3	1:T:607:TRP:HB3	1.94	0.49
1:U:481:GLY:HA3	1:U:607:TRP:HB3	1.94	0.49
1:1:298:TRP:CG	1:1:614:LEU:HD12	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:481:GLY:HA3	1:4:607:TRP:HB3	1.94	0.49
1:6:379:TYR:HH	1:6:395:TYR:H	1.56	0.49
1:a:289:PHE:HB2	1:a:614:LEU:O	2.12	0.49
1:a:548:THR:HG23	1:a:553:VAL:HG11	1.93	0.49
1:b:481:GLY:HA3	1:b:607:TRP:HB3	1.95	0.49
1:c:451:ILE:HG13	1:c:453:GLY:H	1.77	0.49
1:c:477:ASN:ND2	1:d:357:GLY:O	2.45	0.49
1:c:481:GLY:HA3	1:c:607:TRP:HB3	1.95	0.49
1:f:451:ILE:HG13	1:f:453:GLY:H	1.77	0.49
1:i:298:TRP:CG	1:i:614:LEU:HD12	2.47	0.49
1:n:735:ASN:ND2	1:o:395:TYR:OH	2.46	0.49
1:o:693:LYS:HG3	1:p:400:PHE:CE1	2.47	0.49
1:p:481:GLY:HA3	1:p:607:TRP:HB3	1.94	0.49
1:r:657:ASP:O	1:r:657:ASP:OD1	2.31	0.49
1:s:341:THR:HG22	1:s:406:ARG:HG2	1.94	0.49
1:s:436:MET:CE	1:s:471:MET:HG2	2.27	0.49
1:s:559:MET:SD	1:s:726:PRO:CG	2.95	0.49
1:w:657:ASP:OD1	1:w:657:ASP:O	2.31	0.49
1:x:298:TRP:CG	1:x:614:LEU:HD12	2.47	0.49
1:x:341:THR:HG22	1:x:406:ARG:HG2	1.94	0.49
1:x:451:ILE:HG13	1:x:453:GLY:H	1.77	0.49
1:x:481:GLY:HA3	1:x:607:TRP:HB3	1.95	0.49
1:y:395:TYR:OH	1:7:735:ASN:ND2	2.46	0.49
1:y:400:PHE:CE1	1:7:693:LYS:HG3	2.47	0.49
1:z:693:LYS:HG3	1:7:400:PHE:CE1	2.47	0.49
1:A:395:TYR:OH	1:I:735:ASN:ND2	2.45	0.49
1:G:693:LYS:HG3	1:I:400:PHE:CE1	2.47	0.49
1:K:379:TYR:OH	1:K:395:TYR:N	2.30	0.49
1:K:657:ASP:OD1	1:K:657:ASP:O	2.31	0.49
1:L:481:GLY:HA3	1:L:607:TRP:HB3	1.95	0.49
1:O:298:TRP:CG	1:O:614:LEU:HD12	2.47	0.49
1:O:395:TYR:OH	1:h:735:ASN:ND2	2.46	0.49
1:T:693:LYS:HE2	1:4:400:PHE:HD1	1.78	0.49
1:U:341:THR:HG22	1:U:406:ARG:HG2	1.94	0.49
1:U:563:GLU:OE2	1:U:613:TYR:OH	2.17	0.49
1:W:291:CYS:SG	1:W:364:LEU:HB2	2.52	0.49
1:X:298:TRP:CG	1:X:614:LEU:HD12	2.47	0.49
1:Y:225:SER:OG	1:Y:319:ASN:N	2.45	0.49
1:Z:341:THR:HG22	1:Z:406:ARG:HG2	1.94	0.49
1:3:313:LEU:HB3	1:3:415:TYR:HB3	1.95	0.49
1:3:657:ASP:OD1	1:3:657:ASP:O	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:298:TRP:CG	1:5:614:LEU:HD12	2.47	0.49
1:h:341:THR:OG1	1:h:652:THR:OG1	2.25	0.49
1:i:657:ASP:OD1	1:i:657:ASP:O	2.31	0.49
1:l:225:SER:OG	1:l:319:ASN:N	2.45	0.49
1:l:291:CYS:SG	1:l:364:LEU:HB2	2.52	0.49
1:m:225:SER:OG	1:m:319:ASN:N	2.45	0.49
1:o:379:TYR:HH	1:o:395:TYR:H	1.56	0.49
1:o:657:ASP:O	1:o:657:ASP:OD1	2.31	0.49
1:q:298:TRP:CG	1:q:614:LEU:HD12	2.47	0.49
1:r:735:ASN:ND2	1:s:395:TYR:OH	2.45	0.49
1:t:735:ASN:ND2	1:u:395:TYR:OH	2.46	0.49
1:y:657:ASP:OD1	1:y:657:ASP:O	2.31	0.49
1:8:298:TRP:CG	1:8:614:LEU:HD12	2.47	0.49
1:A:693:LYS:HE2	1:G:400:PHE:HD1	1.78	0.49
1:B:341:THR:HG22	1:B:406:ARG:HG2	1.94	0.49
1:D:395:TYR:OH	1:P:735:ASN:ND2	2.46	0.49
1:E:693:LYS:HE2	1:Q:400:PHE:HD1	1.77	0.49
1:G:225:SER:OG	1:G:319:ASN:N	2.45	0.49
1:J:735:ASN:ND2	1:L:395:TYR:OH	2.46	0.49
1:K:400:PHE:HD1	1:8:693:LYS:HE2	1.78	0.49
1:K:451:ILE:HG13	1:K:453:GLY:H	1.77	0.49
1:O:225:SER:OG	1:O:319:ASN:N	2.45	0.49
1:Q:481:GLY:HA3	1:Q:607:TRP:HB3	1.95	0.49
1:R:693:LYS:HG3	1:S:400:PHE:CE1	2.47	0.49
1:V:735:ASN:ND2	1:5:395:TYR:OH	2.46	0.49
1:W:225:SER:OG	1:W:319:ASN:N	2.45	0.49
1:2:559:MET:SD	1:2:726:PRO:CG	2.95	0.49
1:4:341:THR:HG22	1:4:406:ARG:HG2	1.94	0.49
1:c:225:SER:OG	1:c:319:ASN:N	2.45	0.49
1:c:437:ASN:HB2	1:d:355:VAL:HG13	1.94	0.49
1:d:289:PHE:HB2	1:d:614:LEU:O	2.11	0.49
1:d:693:LYS:HG3	1:e:400:PHE:CE1	2.47	0.49
1:g:298:TRP:CG	1:g:614:LEU:HD12	2.47	0.49
1:h:657:ASP:OD1	1:h:657:ASP:O	2.31	0.49
1:j:341:THR:HG22	1:j:406:ARG:HG2	1.94	0.49
1:n:548:THR:HG23	1:n:553:VAL:HG11	1.93	0.49
1:o:298:TRP:CG	1:o:614:LEU:HD12	2.47	0.49
1:p:341:THR:HG22	1:p:406:ARG:HG2	1.94	0.49
1:u:289:PHE:HB2	1:u:614:LEU:O	2.11	0.49
1:v:559:MET:SD	1:v:726:PRO:CG	2.95	0.49
1:v:657:ASP:OD1	1:v:657:ASP:O	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:313:LEU:HB3	1:x:415:TYR:HB3	1.95	0.49
1:x:657:ASP:OD1	1:x:657:ASP:O	2.31	0.49
1:z:298:TRP:CG	1:z:614:LEU:HD12	2.47	0.49
1:7:298:TRP:CG	1:7:614:LEU:HD12	2.47	0.49
1:A:298:TRP:CG	1:A:614:LEU:HD12	2.47	0.49
1:B:615:GLN:OE1	1:B:615:GLN:N	2.46	0.49
1:C:341:THR:HG22	1:C:406:ARG:HG2	1.94	0.49
1:D:615:GLN:OE1	1:D:615:GLN:N	2.46	0.49
1:D:735:ASN:ND2	1:N:395:TYR:OH	2.46	0.49
1:F:657:ASP:OD1	1:F:657:ASP:O	2.31	0.49
1:G:735:ASN:ND2	1:I:395:TYR:OH	2.45	0.49
1:H:427:ALA:O	1:H:733:THR:HA	2.13	0.49
1:I:436:MET:CE	1:I:471:MET:HG2	2.27	0.49
1:J:548:THR:HG23	1:J:553:VAL:HG11	1.93	0.49
1:L:298:TRP:CG	1:L:614:LEU:HD12	2.47	0.49
1:M:657:ASP:OD1	1:M:657:ASP:O	2.31	0.49
1:N:379:TYR:HH	1:N:395:TYR:H	1.56	0.49
1:O:481:GLY:HA3	1:O:607:TRP:HB3	1.95	0.49
1:Q:289:PHE:HB2	1:Q:614:LEU:O	2.12	0.49
1:Q:298:TRP:CG	1:Q:614:LEU:HD12	2.47	0.49
1:V:657:ASP:OD1	1:V:657:ASP:O	2.31	0.49
1:W:313:LEU:HB3	1:W:415:TYR:HB3	1.95	0.49
1:Y:298:TRP:CG	1:Y:614:LEU:HD12	2.47	0.49
1:Y:427:ALA:O	1:Y:733:THR:HA	2.13	0.49
1:Z:735:ASN:ND2	1:x:395:TYR:OH	2.46	0.49
1:2:225:SER:OG	1:2:319:ASN:N	2.45	0.49
1:2:657:ASP:OD1	1:2:657:ASP:O	2.31	0.49
1:3:451:ILE:HG13	1:3:453:GLY:H	1.77	0.49
1:6:395:TYR:OH	1:a:735:ASN:ND2	2.46	0.49
1:a:615:GLN:OE1	1:a:615:GLN:N	2.46	0.49
1:b:657:ASP:O	1:b:657:ASP:OD1	2.31	0.49
1:c:289:PHE:HB2	1:c:614:LEU:O	2.11	0.49
1:c:298:TRP:CG	1:c:614:LEU:HD12	2.47	0.49
1:c:400:PHE:HD1	1:e:693:LYS:HE2	1.77	0.49
1:d:657:ASP:OD1	1:d:657:ASP:O	2.31	0.49
1:g:657:ASP:O	1:g:657:ASP:OD1	2.31	0.49
1:k:427:ALA:O	1:k:733:THR:HA	2.13	0.49
1:l:313:LEU:HB3	1:l:415:TYR:HB3	1.95	0.49
1:m:427:ALA:O	1:m:733:THR:HA	2.13	0.49
1:q:693:LYS:HG3	1:r:400:PHE:CE1	2.47	0.49
1:r:313:LEU:HB3	1:r:415:TYR:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:341:THR:HG22	1:u:406:ARG:HG2	1.94	0.49
1:v:225:SER:OG	1:v:319:ASN:N	2.45	0.49
1:y:400:PHE:HD1	1:7:693:LYS:HE2	1.78	0.49
1:C:379:TYR:HH	1:C:395:TYR:H	1.59	0.48
1:C:400:PHE:HD1	1:M:693:LYS:HE2	1.78	0.48
1:E:451:ILE:HG13	1:E:453:GLY:H	1.77	0.48
1:G:313:LEU:HB3	1:G:415:TYR:HB3	1.95	0.48
1:L:427:ALA:O	1:L:733:THR:HA	2.13	0.48
1:M:395:TYR:OH	1:2:735:ASN:ND2	2.46	0.48
1:M:400:PHE:CE1	1:2:693:LYS:HG3	2.47	0.48
1:N:225:SER:OG	1:N:319:ASN:N	2.45	0.48
1:N:615:GLN:OE1	1:N:615:GLN:N	2.46	0.48
1:P:313:LEU:HB3	1:P:415:TYR:HB3	1.95	0.48
1:P:657:ASP:OD1	1:P:657:ASP:O	2.31	0.48
1:Q:225:SER:OG	1:Q:319:ASN:N	2.45	0.48
1:S:559:MET:SD	1:S:726:PRO:CG	2.95	0.48
1:T:395:TYR:OH	1:f:735:ASN:ND2	2.46	0.48
1:T:400:PHE:CE1	1:f:693:LYS:HG3	2.48	0.48
1:V:400:PHE:CE1	1:X:693:LYS:HG3	2.47	0.48
1:W:481:GLY:HA3	1:W:607:TRP:HB3	1.95	0.48
1:X:427:ALA:O	1:X:733:THR:HA	2.13	0.48
1:X:657:ASP:OD1	1:X:657:ASP:O	2.31	0.48
1:Z:400:PHE:HD1	1:w:693:LYS:HE2	1.77	0.48
1:1:379:TYR:OH	1:1:395:TYR:N	2.30	0.48
1:1:481:GLY:HA3	1:1:607:TRP:HB3	1.95	0.48
1:3:395:TYR:OH	1:j:735:ASN:ND2	2.46	0.48
1:4:313:LEU:HB3	1:4:415:TYR:HB3	1.95	0.48
1:5:225:SER:OG	1:5:319:ASN:N	2.45	0.48
1:5:481:GLY:HA3	1:5:607:TRP:HB3	1.95	0.48
1:6:615:GLN:OE1	1:6:615:GLN:N	2.46	0.48
1:6:693:LYS:HE2	1:b:400:PHE:HD1	1.78	0.48
1:a:395:TYR:OH	1:b:735:ASN:ND2	2.46	0.48
1:d:313:LEU:HB3	1:d:415:TYR:HB3	1.95	0.48
1:g:427:ALA:O	1:g:733:THR:HA	2.13	0.48
1:j:615:GLN:OE1	1:j:615:GLN:N	2.46	0.48
1:l:451:ILE:HG13	1:l:453:GLY:H	1.77	0.48
1:m:657:ASP:O	1:m:657:ASP:OD1	2.31	0.48
1:o:427:ALA:O	1:o:733:THR:HA	2.13	0.48
1:p:615:GLN:OE1	1:p:615:GLN:N	2.46	0.48
1:q:395:TYR:OH	1:s:735:ASN:ND2	2.46	0.48
1:r:225:SER:OG	1:r:319:ASN:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:395:TYR:OH	1:v:735:ASN:ND2	2.46	0.48
1:t:400:PHE:CE1	1:v:693:LYS:HG3	2.47	0.48
1:t:451:ILE:HG13	1:t:453:GLY:H	1.77	0.48
1:t:657:ASP:OD1	1:t:657:ASP:O	2.31	0.48
1:y:427:ALA:O	1:y:733:THR:HA	2.13	0.48
1:z:481:GLY:HA3	1:z:607:TRP:HB3	1.95	0.48
1:C:427:ALA:O	1:C:733:THR:HA	2.13	0.48
1:D:394:PHE:O	1:P:695:TRP:HB3	2.13	0.48
1:D:400:PHE:HD1	1:P:693:LYS:HE2	1.78	0.48
1:K:427:ALA:O	1:K:733:THR:HA	2.14	0.48
1:M:451:ILE:HG13	1:M:453:GLY:H	1.77	0.48
1:N:693:LYS:HE2	1:P:400:PHE:HD1	1.78	0.48
1:O:695:TRP:HB3	1:g:394:PHE:O	2.13	0.48
1:Q:657:ASP:OD1	1:Q:657:ASP:O	2.31	0.48
1:R:313:LEU:HB3	1:R:415:TYR:HB3	1.95	0.48
1:R:394:PHE:O	1:U:695:TRP:HB3	2.14	0.48
1:R:427:ALA:O	1:R:733:THR:HA	2.13	0.48
1:T:559:MET:SD	1:T:726:PRO:CG	2.95	0.48
1:U:313:LEU:HB3	1:U:415:TYR:HB3	1.95	0.48
1:W:693:LYS:HE2	1:Y:400:PHE:HD1	1.78	0.48
1:X:394:PHE:O	1:5:695:TRP:HB3	2.13	0.48
1:X:559:MET:CE	1:X:725:ARG:HA	2.44	0.48
1:Y:657:ASP:OD1	1:Y:657:ASP:O	2.31	0.48
1:Z:615:GLN:OE1	1:Z:615:GLN:N	2.46	0.48
1:4:695:TRP:HB3	1:f:394:PHE:O	2.14	0.48
1:6:225:SER:OG	1:6:319:ASN:N	2.45	0.48
1:b:313:LEU:HB3	1:b:415:TYR:HB3	1.95	0.48
1:f:313:LEU:HB3	1:f:415:TYR:HB3	1.95	0.48
1:f:427:ALA:O	1:f:733:THR:HA	2.13	0.48
1:f:657:ASP:OD1	1:f:657:ASP:O	2.31	0.48
1:g:693:LYS:HG3	1:h:400:PHE:CE1	2.47	0.48
1:i:559:MET:SD	1:i:726:PRO:CG	2.95	0.48
1:i:693:LYS:HE2	1:j:400:PHE:HD1	1.78	0.48
1:j:225:SER:OG	1:j:319:ASN:N	2.45	0.48
1:k:481:GLY:HA3	1:k:607:TRP:HB3	1.95	0.48
1:l:481:GLY:HA3	1:l:607:TRP:HB3	1.95	0.48
1:m:298:TRP:CG	1:m:614:LEU:HD12	2.47	0.48
1:n:427:ALA:O	1:n:733:THR:HA	2.13	0.48
1:n:559:MET:CE	1:n:725:ARG:HA	2.44	0.48
1:t:693:LYS:HE2	1:u:400:PHE:HD1	1.78	0.48
1:u:427:ALA:O	1:u:733:THR:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:735:ASN:ND2	1:v:395:TYR:OH	2.46	0.48
1:z:559:MET:SD	1:z:726:PRO:CG	2.95	0.48
1:8:341:THR:HG22	1:8:406:ARG:HG2	1.94	0.48
1:B:427:ALA:O	1:B:733:THR:HA	2.13	0.48
1:D:313:LEU:HB3	1:D:415:TYR:HB3	1.95	0.48
1:F:313:LEU:HB3	1:F:415:TYR:HB3	1.95	0.48
1:H:481:GLY:HA3	1:H:607:TRP:HB3	1.95	0.48
1:I:559:MET:SD	1:I:726:PRO:CG	2.95	0.48
1:J:427:ALA:O	1:J:733:THR:HA	2.13	0.48
1:J:559:MET:CE	1:J:725:ARG:HA	2.44	0.48
1:J:618:ILE:O	1:J:637:GLY:HA3	2.14	0.48
1:L:313:LEU:HB3	1:L:415:TYR:HB3	1.95	0.48
1:N:563:GLU:OE2	1:N:613:TYR:OH	2.17	0.48
1:R:657:ASP:O	1:R:657:ASP:OD1	2.31	0.48
1:R:735:ASN:ND2	1:S:395:TYR:OH	2.46	0.48
1:U:559:MET:CE	1:U:725:ARG:HA	2.44	0.48
1:V:427:ALA:O	1:V:733:THR:HA	2.13	0.48
1:W:451:ILE:HG13	1:W:453:GLY:H	1.77	0.48
1:Z:225:SER:OG	1:Z:319:ASN:N	2.45	0.48
1:5:313:LEU:HB3	1:5:415:TYR:HB3	1.95	0.48
1:5:427:ALA:O	1:5:733:THR:HA	2.13	0.48
1:a:394:PHE:O	1:b:695:TRP:HB3	2.14	0.48
1:b:379:TYR:HH	1:b:395:TYR:H	1.58	0.48
1:c:657:ASP:OD1	1:c:657:ASP:O	2.31	0.48
1:e:618:ILE:O	1:e:637:GLY:HA3	2.14	0.48
1:g:735:ASN:ND2	1:h:395:TYR:OH	2.46	0.48
1:h:427:ALA:O	1:h:733:THR:HA	2.13	0.48
1:i:427:ALA:O	1:i:733:THR:HA	2.13	0.48
1:n:379:TYR:HH	1:n:395:TYR:H	1.59	0.48
1:o:695:TRP:HB3	1:p:394:PHE:O	2.13	0.48
1:o:735:ASN:ND2	1:p:395:TYR:OH	2.46	0.48
1:p:427:ALA:O	1:p:733:THR:HA	2.13	0.48
1:q:427:ALA:O	1:q:733:THR:HA	2.13	0.48
1:q:615:GLN:OE1	1:q:615:GLN:N	2.46	0.48
1:q:735:ASN:ND2	1:r:395:TYR:OH	2.46	0.48
1:t:427:ALA:O	1:t:733:THR:HA	2.13	0.48
1:t:618:ILE:O	1:t:637:GLY:HA3	2.14	0.48
1:w:427:ALA:O	1:w:733:THR:HA	2.13	0.48
1:A:695:TRP:HB3	1:G:394:PHE:O	2.13	0.48
1:B:394:PHE:O	1:L:695:TRP:HB3	2.13	0.48
1:B:395:TYR:OH	1:L:735:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:735:ASN:ND2	1:2:395:TYR:OH	2.46	0.48
1:E:618:ILE:O	1:E:637:GLY:HA3	2.14	0.48
1:F:394:PHE:O	1:Q:695:TRP:HB3	2.14	0.48
1:H:294:SER:O	1:H:297:ASP:N	2.47	0.48
1:H:695:TRP:HB3	1:W:394:PHE:O	2.14	0.48
1:J:695:TRP:HB3	1:L:394:PHE:O	2.13	0.48
1:M:481:GLY:HA3	1:M:607:TRP:HB3	1.94	0.48
1:M:618:ILE:O	1:M:637:GLY:HA3	2.14	0.48
1:O:313:LEU:HB3	1:O:415:TYR:HB3	1.95	0.48
1:O:427:ALA:O	1:O:733:THR:HA	2.13	0.48
1:Q:618:ILE:O	1:Q:637:GLY:HA3	2.14	0.48
1:U:657:ASP:OD1	1:U:657:ASP:O	2.31	0.48
1:1:559:MET:SD	1:1:726:PRO:CG	2.95	0.48
1:1:657:ASP:OD1	1:1:657:ASP:O	2.31	0.48
1:2:427:ALA:O	1:2:733:THR:HA	2.13	0.48
1:4:657:ASP:O	1:4:657:ASP:OD1	2.31	0.48
1:a:313:LEU:HB3	1:a:415:TYR:HB3	1.95	0.48
1:a:400:PHE:HD1	1:b:693:LYS:HE2	1.78	0.48
1:b:618:ILE:O	1:b:637:GLY:HA3	2.14	0.48
1:c:618:ILE:O	1:c:637:GLY:HA3	2.14	0.48
1:e:451:ILE:HG13	1:e:453:GLY:H	1.77	0.48
1:k:294:SER:O	1:k:297:ASP:N	2.47	0.48
1:k:695:TRP:HB3	1:l:394:PHE:O	2.14	0.48
1:l:693:LYS:HE2	1:m:400:PHE:HD1	1.78	0.48
1:n:618:ILE:O	1:n:637:GLY:HA3	2.14	0.48
1:o:313:LEU:HB3	1:o:415:TYR:HB3	1.95	0.48
1:v:427:ALA:O	1:v:733:THR:HA	2.13	0.48
1:z:657:ASP:O	1:z:657:ASP:OD1	2.31	0.48
1:z:735:ASN:ND2	1:7:395:TYR:OH	2.46	0.48
1:7:341:THR:HG22	1:7:406:ARG:HG2	1.94	0.48
1:A:427:ALA:O	1:A:733:THR:HA	2.13	0.48
1:A:615:GLN:OE1	1:A:615:GLN:N	2.46	0.48
1:B:657:ASP:OD1	1:B:657:ASP:O	2.31	0.48
1:D:657:ASP:O	1:D:657:ASP:OD1	2.31	0.48
1:I:427:ALA:O	1:I:733:THR:HA	2.13	0.48
1:K:695:TRP:HB3	1:1:394:PHE:O	2.14	0.48
1:M:427:ALA:O	1:M:733:THR:HA	2.13	0.48
1:O:229:HIS:CD2	1:O:242:THR:HG21	2.49	0.48
1:P:225:SER:OG	1:P:319:ASN:N	2.45	0.48
1:P:618:ILE:O	1:P:637:GLY:HA3	2.14	0.48
1:R:225:SER:OG	1:R:319:ASN:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:294:SER:O	1:V:297:ASP:N	2.47	0.48
1:V:481:GLY:HA3	1:V:607:TRP:HB3	1.95	0.48
1:W:735:ASN:ND2	1:Y:395:TYR:OH	2.46	0.48
1:X:294:SER:O	1:X:297:ASP:N	2.47	0.48
1:Y:294:SER:O	1:Y:297:ASP:N	2.47	0.48
1:Y:481:GLY:HA3	1:Y:607:TRP:HB3	1.94	0.48
1:Z:394:PHE:O	1:w:695:TRP:HB3	2.14	0.48
1:1:735:ASN:ND2	1:8:395:TYR:OH	2.46	0.48
1:3:735:ASN:ND2	1:i:395:TYR:OH	2.46	0.48
1:5:229:HIS:CD2	1:5:242:THR:HG21	2.49	0.48
1:a:657:ASP:OD1	1:a:657:ASP:O	2.31	0.48
1:g:294:SER:O	1:g:297:ASP:N	2.47	0.48
1:h:481:GLY:HA3	1:h:607:TRP:HB3	1.95	0.48
1:l:735:ASN:ND2	1:m:395:TYR:OH	2.46	0.48
1:m:294:SER:O	1:m:297:ASP:N	2.47	0.48
1:n:657:ASP:OD1	1:n:657:ASP:O	2.31	0.48
1:q:559:MET:CE	1:q:725:ARG:HA	2.44	0.48
1:q:693:LYS:HE2	1:r:400:PHE:HD1	1.78	0.48
1:r:427:ALA:O	1:r:733:THR:HA	2.13	0.48
1:s:427:ALA:O	1:s:733:THR:HA	2.13	0.48
1:t:225:SER:OG	1:t:319:ASN:N	2.45	0.48
1:t:481:GLY:HA3	1:t:607:TRP:HB3	1.95	0.48
1:w:395:TYR:OH	1:x:735:ASN:ND2	2.45	0.48
1:y:695:TRP:HB3	1:z:394:PHE:O	2.14	0.48
1:7:427:ALA:O	1:7:733:THR:HA	2.13	0.48
1:8:657:ASP:OD1	1:8:657:ASP:O	2.31	0.48
1:A:559:MET:CE	1:A:725:ARG:HA	2.44	0.48
1:B:618:ILE:O	1:B:637:GLY:HA3	2.14	0.48
1:C:618:ILE:O	1:C:637:GLY:HA3	2.14	0.48
1:C:657:ASP:OD1	1:C:657:ASP:O	2.31	0.48
1:G:427:ALA:O	1:G:733:THR:HA	2.13	0.48
1:H:225:SER:OG	1:H:319:ASN:N	2.45	0.48
1:H:657:ASP:OD1	1:H:657:ASP:O	2.31	0.48
1:I:229:HIS:CD2	1:I:242:THR:HG21	2.49	0.48
1:J:657:ASP:O	1:J:657:ASP:OD1	2.31	0.48
1:K:618:ILE:O	1:K:637:GLY:HA3	2.14	0.48
1:O:394:PHE:O	1:h:695:TRP:HB3	2.13	0.48
1:P:427:ALA:O	1:P:733:THR:HA	2.13	0.48
1:V:394:PHE:O	1:X:695:TRP:HB3	2.13	0.48
1:V:395:TYR:OH	1:X:735:ASN:ND2	2.46	0.48
1:V:695:TRP:HB3	1:5:394:PHE:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:229:HIS:CD2	1:W:242:THR:HG21	2.49	0.48
1:1:229:HIS:CD2	1:1:242:THR:HG21	2.49	0.48
1:2:313:LEU:HB3	1:2:415:TYR:HB3	1.95	0.48
1:3:229:HIS:CD2	1:3:242:THR:HG21	2.49	0.48
1:d:481:GLY:HA3	1:d:607:TRP:HB3	1.94	0.48
1:e:294:SER:O	1:e:297:ASP:N	2.47	0.48
1:e:657:ASP:O	1:e:657:ASP:OD1	2.31	0.48
1:h:294:SER:O	1:h:297:ASP:N	2.47	0.48
1:i:229:HIS:CD2	1:i:242:THR:HG21	2.49	0.48
1:i:294:SER:O	1:i:297:ASP:N	2.47	0.48
1:k:657:ASP:OD1	1:k:657:ASP:O	2.31	0.48
1:l:229:HIS:CD2	1:l:242:THR:HG21	2.49	0.48
1:m:481:GLY:HA3	1:m:607:TRP:HB3	1.95	0.48
1:o:615:GLN:OE1	1:o:615:GLN:N	2.46	0.48
1:p:618:ILE:O	1:p:637:GLY:HA3	2.14	0.48
1:p:657:ASP:OD1	1:p:657:ASP:O	2.31	0.48
1:q:296:ARG:HH12	1:q:300:ARG:HB2	1.79	0.48
1:r:481:GLY:HA3	1:r:607:TRP:HB3	1.95	0.48
1:s:615:GLN:N	1:s:615:GLN:OE1	2.46	0.48
1:u:618:ILE:O	1:u:637:GLY:HA3	2.14	0.48
1:w:294:SER:O	1:w:297:ASP:N	2.47	0.48
1:x:229:HIS:CD2	1:x:242:THR:HG21	2.49	0.48
1:y:618:ILE:O	1:y:637:GLY:HA3	2.14	0.48
1:z:229:HIS:CD2	1:z:242:THR:HG21	2.49	0.48
1:8:427:ALA:O	1:8:733:THR:HA	2.13	0.48
1:A:296:ARG:HH12	1:A:300:ARG:HB2	1.79	0.48
1:A:657:ASP:OD1	1:A:657:ASP:O	2.31	0.48
1:A:735:ASN:ND2	1:G:395:TYR:OH	2.46	0.48
1:C:229:HIS:CD2	1:C:242:THR:HG21	2.49	0.48
1:C:615:GLN:OE1	1:C:615:GLN:N	2.46	0.48
1:E:294:SER:O	1:E:297:ASP:N	2.47	0.48
1:E:313:LEU:HB3	1:E:415:TYR:HB3	1.95	0.48
1:E:657:ASP:OD1	1:E:657:ASP:O	2.31	0.48
1:F:481:GLY:HA3	1:F:607:TRP:HB3	1.94	0.48
1:F:559:MET:CE	1:F:725:ARG:HA	2.44	0.48
1:G:481:GLY:HA3	1:G:607:TRP:HB3	1.95	0.48
1:G:618:ILE:O	1:G:637:GLY:HA3	2.14	0.48
1:I:313:LEU:HB3	1:I:415:TYR:HB3	1.95	0.48
1:I:563:GLU:OE2	1:I:613:TYR:OH	2.17	0.48
1:M:225:SER:OG	1:M:319:ASN:N	2.45	0.48
1:M:229:HIS:CD2	1:M:242:THR:HG21	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:735:ASN:ND2	1:P:395:TYR:OH	2.46	0.48
1:Q:296:ARG:HH12	1:Q:300:ARG:HB2	1.79	0.48
1:S:618:ILE:O	1:S:637:GLY:HA3	2.14	0.48
1:T:618:ILE:O	1:T:637:GLY:HA3	2.14	0.48
1:W:294:SER:O	1:W:297:ASP:N	2.47	0.48
1:W:615:GLN:OE1	1:W:615:GLN:N	2.46	0.48
1:X:296:ARG:HH12	1:X:300:ARG:HB2	1.79	0.48
1:Y:229:HIS:CD2	1:Y:242:THR:HG21	2.49	0.48
1:Z:657:ASP:O	1:Z:657:ASP:OD1	2.31	0.48
1:1:618:ILE:O	1:1:637:GLY:HA3	2.14	0.48
1:1:695:TRP:HB3	1:8:394:PHE:O	2.13	0.48
1:3:618:ILE:O	1:3:637:GLY:HA3	2.14	0.48
1:6:735:ASN:ND2	1:b:395:TYR:OH	2.46	0.48
1:b:225:SER:OG	1:b:319:ASN:N	2.45	0.48
1:c:296:ARG:HH12	1:c:300:ARG:HB2	1.79	0.48
1:d:559:MET:CE	1:d:725:ARG:HA	2.44	0.48
1:e:481:GLY:HA3	1:e:607:TRP:HB3	1.95	0.48
1:f:225:SER:OG	1:f:319:ASN:N	2.45	0.48
1:g:296:ARG:HH12	1:g:300:ARG:HB2	1.79	0.48
1:g:695:TRP:HB3	1:h:394:PHE:O	2.13	0.48
1:i:695:TRP:HB3	1:j:394:PHE:O	2.14	0.48
1:k:379:TYR:OH	1:k:395:TYR:N	2.30	0.48
1:k:559:MET:CE	1:k:725:ARG:HA	2.44	0.48
1:k:615:GLN:N	1:k:615:GLN:OE1	2.46	0.48
1:l:294:SER:O	1:l:297:ASP:N	2.47	0.48
1:l:615:GLN:OE1	1:l:615:GLN:N	2.46	0.48
1:m:229:HIS:CD2	1:m:242:THR:HG21	2.49	0.48
1:q:657:ASP:OD1	1:q:657:ASP:O	2.31	0.48
1:r:618:ILE:O	1:r:637:GLY:HA3	2.14	0.48
1:s:229:HIS:CD2	1:s:242:THR:HG21	2.49	0.48
1:s:313:LEU:HB3	1:s:415:TYR:HB3	1.95	0.48
1:s:618:ILE:O	1:s:637:GLY:HA3	2.14	0.48
1:t:229:HIS:CD2	1:t:242:THR:HG21	2.49	0.48
1:u:398:GLU:OE1	1:u:398:GLU:HA	2.14	0.48
1:u:657:ASP:O	1:u:657:ASP:OD1	2.31	0.48
1:v:313:LEU:HB3	1:v:415:TYR:HB3	1.95	0.48
1:7:657:ASP:O	1:7:657:ASP:OD1	2.31	0.48
1:8:481:GLY:HA3	1:8:607:TRP:HB3	1.94	0.48
1:B:379:TYR:OH	1:B:395:TYR:N	2.30	0.48
1:B:693:LYS:HE2	1:J:400:PHE:HD1	1.78	0.48
1:C:398:GLU:OE1	1:C:398:GLU:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:481:GLY:HA3	1:E:607:TRP:HB3	1.95	0.48
1:H:559:MET:CE	1:H:725:ARG:HA	2.44	0.48
1:H:615:GLN:N	1:H:615:GLN:OE1	2.46	0.48
1:I:615:GLN:OE1	1:I:615:GLN:N	2.46	0.48
1:I:618:ILE:O	1:I:637:GLY:HA3	2.14	0.48
1:J:313:LEU:HB3	1:J:415:TYR:HB3	1.95	0.48
1:K:615:GLN:OE1	1:K:615:GLN:N	2.46	0.48
1:L:398:GLU:OE1	1:L:398:GLU:HA	2.14	0.48
1:L:615:GLN:OE1	1:L:615:GLN:N	2.46	0.48
1:N:296:ARG:HH12	1:N:300:ARG:HB2	1.79	0.48
1:O:296:ARG:HH12	1:O:300:ARG:HB2	1.79	0.48
1:O:559:MET:SD	1:O:726:PRO:CG	2.95	0.48
1:O:615:GLN:OE1	1:O:615:GLN:N	2.46	0.48
1:R:481:GLY:HA3	1:R:607:TRP:HB3	1.95	0.48
1:U:427:ALA:O	1:U:733:THR:HA	2.13	0.48
1:V:400:PHE:HD1	1:X:693:LYS:HE2	1.78	0.48
1:Y:618:ILE:O	1:Y:637:GLY:HA3	2.14	0.48
1:Z:398:GLU:OE1	1:Z:398:GLU:HA	2.14	0.48
1:c:735:ASN:ND2	1:d:395:TYR:OH	2.47	0.48
1:e:313:LEU:HB3	1:e:415:TYR:HB3	1.95	0.48
1:f:296:ARG:HH12	1:f:300:ARG:HB2	1.79	0.48
1:g:481:GLY:HA3	1:g:607:TRP:HB3	1.94	0.48
1:j:398:GLU:OE1	1:j:398:GLU:HA	2.14	0.48
1:j:657:ASP:O	1:j:657:ASP:OD1	2.31	0.48
1:k:225:SER:OG	1:k:319:ASN:N	2.45	0.48
1:l:398:GLU:OE1	1:l:398:GLU:HA	2.14	0.48
1:l:427:ALA:O	1:l:733:THR:HA	2.13	0.48
1:n:313:LEU:HB3	1:n:415:TYR:HB3	1.95	0.48
1:n:400:PHE:HD1	1:p:693:LYS:HE2	1.78	0.48
1:n:695:TRP:HB3	1:o:394:PHE:O	2.14	0.48
1:o:618:ILE:O	1:o:637:GLY:HA3	2.14	0.48
1:p:379:TYR:OH	1:p:395:TYR:N	2.30	0.48
1:t:294:SER:O	1:t:297:ASP:N	2.47	0.48
1:u:229:HIS:CD2	1:u:242:THR:HG21	2.49	0.48
1:w:229:HIS:CD2	1:w:242:THR:HG21	2.49	0.48
1:w:559:MET:SD	1:w:726:PRO:CG	2.95	0.48
1:x:618:ILE:O	1:x:637:GLY:HA3	2.14	0.48
1:z:398:GLU:OE1	1:z:398:GLU:HA	2.14	0.48
1:z:618:ILE:O	1:z:637:GLY:HA3	2.14	0.48
1:7:398:GLU:OE1	1:7:398:GLU:HA	2.14	0.48
1:7:481:GLY:HA3	1:7:607:TRP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:618:ILE:O	1:7:637:GLY:HA3	2.14	0.48
1:8:398:GLU:OE1	1:8:398:GLU:HA	2.14	0.48
1:D:693:LYS:HE2	1:N:400:PHE:HD1	1.78	0.48
1:D:695:TRP:HB3	1:N:394:PHE:O	2.14	0.48
1:E:229:HIS:CD2	1:E:242:THR:HG21	2.49	0.48
1:E:394:PHE:O	1:F:695:TRP:HB3	2.14	0.48
1:E:395:TYR:OH	1:F:735:ASN:ND2	2.46	0.48
1:G:398:GLU:OE1	1:G:398:GLU:HA	2.14	0.48
1:H:296:ARG:HH12	1:H:300:ARG:HB2	1.79	0.48
1:H:618:ILE:O	1:H:637:GLY:HA3	2.14	0.48
1:I:296:ARG:HH12	1:I:300:ARG:HB2	1.79	0.48
1:J:610:ARG:NH1	1:J:634:LEU:O	2.47	0.48
1:L:229:HIS:CD2	1:L:242:THR:HG21	2.49	0.48
1:L:261:SER:HB3	1:L:275:PHE:CD1	2.49	0.48
1:O:261:SER:HB3	1:O:275:PHE:CD1	2.49	0.48
1:O:657:ASP:O	1:O:657:ASP:OD1	2.31	0.48
1:R:296:ARG:HH12	1:R:300:ARG:HB2	1.79	0.48
1:T:657:ASP:OD1	1:T:657:ASP:O	2.31	0.48
1:W:398:GLU:OE1	1:W:398:GLU:HA	2.14	0.48
1:W:427:ALA:O	1:W:733:THR:HA	2.13	0.48
1:W:695:TRP:HB3	1:Y:394:PHE:O	2.14	0.48
1:X:481:GLY:HA3	1:X:607:TRP:HB3	1.94	0.48
1:2:721:TYR:HH	1:3:695:TRP:HZ2	1.61	0.48
1:5:296:ARG:HH12	1:5:300:ARG:HB2	1.79	0.48
1:5:657:ASP:OD1	1:5:657:ASP:O	2.31	0.48
1:6:261:SER:HB3	1:6:275:PHE:CD1	2.49	0.48
1:6:394:PHE:O	1:a:695:TRP:HB3	2.14	0.48
1:b:427:ALA:O	1:b:733:THR:HA	2.13	0.48
1:c:559:MET:CE	1:c:725:ARG:HA	2.44	0.48
1:e:229:HIS:CD2	1:e:242:THR:HG21	2.49	0.48
1:e:261:SER:HB3	1:e:275:PHE:CD1	2.49	0.48
1:f:610:ARG:NH1	1:f:634:LEU:O	2.47	0.48
1:k:296:ARG:HH12	1:k:300:ARG:HB2	1.79	0.48
1:l:559:MET:SD	1:l:726:PRO:CG	2.95	0.48
1:l:695:TRP:HB3	1:m:394:PHE:O	2.14	0.48
1:m:618:ILE:O	1:m:637:GLY:HA3	2.14	0.48
1:o:261:SER:HB3	1:o:275:PHE:CD1	2.49	0.48
1:o:398:GLU:OE1	1:o:398:GLU:HA	2.14	0.48
1:s:657:ASP:OD1	1:s:657:ASP:O	2.31	0.48
1:u:615:GLN:OE1	1:u:615:GLN:N	2.46	0.48
1:w:481:GLY:HA3	1:w:607:TRP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:615:GLN:OE1	1:y:615:GLN:N	2.46	0.48
1:z:296:ARG:HH12	1:z:300:ARG:HB2	1.79	0.48
1:z:695:TRP:HB3	1:7:394:PHE:O	2.14	0.48
1:8:559:MET:SD	1:8:726:PRO:CG	2.95	0.48
1:8:618:ILE:O	1:8:637:GLY:HA3	2.14	0.48
1:A:229:HIS:CD2	1:A:242:THR:HG21	2.49	0.48
1:A:481:GLY:HA3	1:A:607:TRP:HB3	1.95	0.48
1:A:610:ARG:NH1	1:A:634:LEU:O	2.47	0.48
1:B:610:ARG:NH1	1:B:634:LEU:O	2.47	0.48
1:C:261:SER:HB3	1:C:275:PHE:CD1	2.49	0.48
1:E:261:SER:HB3	1:E:275:PHE:CD1	2.49	0.48
1:E:610:ARG:NH1	1:E:634:LEU:O	2.47	0.48
1:G:261:SER:HB3	1:G:275:PHE:CD1	2.49	0.48
1:I:398:GLU:OE1	1:I:398:GLU:HA	2.14	0.48
1:I:610:ARG:NH1	1:I:634:LEU:O	2.47	0.48
1:J:296:ARG:HH12	1:J:300:ARG:HB2	1.79	0.48
1:K:735:ASN:ND2	1:1:395:TYR:OH	2.46	0.48
1:M:294:SER:O	1:M:297:ASP:N	2.47	0.48
1:N:229:HIS:CD2	1:N:242:THR:HG21	2.49	0.48
1:N:618:ILE:O	1:N:637:GLY:HA3	2.14	0.48
1:O:398:GLU:OE1	1:O:398:GLU:HA	2.14	0.48
1:O:618:ILE:O	1:O:637:GLY:HA3	2.14	0.48
1:R:294:SER:O	1:R:297:ASP:N	2.47	0.48
1:R:610:ARG:NH1	1:R:634:LEU:O	2.47	0.48
1:S:657:ASP:OD1	1:S:657:ASP:O	2.31	0.48
1:T:225:SER:OG	1:T:319:ASN:N	2.45	0.48
1:V:229:HIS:CD2	1:V:242:THR:HG21	2.49	0.48
1:V:313:LEU:HB3	1:V:415:TYR:HB3	1.95	0.48
1:X:398:GLU:OE1	1:X:398:GLU:HA	2.14	0.48
1:Y:261:SER:HB3	1:Y:275:PHE:CD1	2.49	0.48
1:Y:313:LEU:HB3	1:Y:415:TYR:HB3	1.95	0.48
1:Z:427:ALA:O	1:Z:733:THR:HA	2.13	0.48
1:1:398:GLU:OE1	1:1:398:GLU:HA	2.14	0.48
1:2:610:ARG:NH1	1:2:634:LEU:O	2.47	0.48
1:2:618:ILE:O	1:2:637:GLY:HA3	2.14	0.48
1:4:427:ALA:O	1:4:733:THR:HA	2.14	0.48
1:4:618:ILE:O	1:4:637:GLY:HA3	2.14	0.48
1:5:261:SER:HB3	1:5:275:PHE:CD1	2.49	0.48
1:5:398:GLU:OE1	1:5:398:GLU:HA	2.14	0.48
1:5:615:GLN:OE1	1:5:615:GLN:N	2.46	0.48
1:a:296:ARG:HH12	1:a:300:ARG:HB2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:610:ARG:NH1	1:e:634:LEU:O	2.47	0.48
1:f:481:GLY:HA3	1:f:607:TRP:HB3	1.95	0.48
1:f:618:ILE:O	1:f:637:GLY:HA3	2.14	0.48
1:g:618:ILE:O	1:g:637:GLY:HA3	2.14	0.48
1:h:229:HIS:CD2	1:h:242:THR:HG21	2.49	0.48
1:h:313:LEU:HB3	1:h:415:TYR:HB3	1.95	0.48
1:i:481:GLY:HA3	1:i:607:TRP:HB3	1.95	0.48
1:i:563:GLU:OE2	1:i:613:TYR:OH	2.17	0.48
1:j:427:ALA:O	1:j:733:THR:HA	2.13	0.48
1:k:618:ILE:O	1:k:637:GLY:HA3	2.14	0.48
1:m:261:SER:HB3	1:m:275:PHE:CD1	2.49	0.48
1:m:313:LEU:HB3	1:m:415:TYR:HB3	1.95	0.48
1:n:610:ARG:NH1	1:n:634:LEU:O	2.47	0.48
1:o:229:HIS:CD2	1:o:242:THR:HG21	2.49	0.48
1:p:610:ARG:NH1	1:p:634:LEU:O	2.47	0.48
1:q:229:HIS:CD2	1:q:242:THR:HG21	2.49	0.48
1:q:481:GLY:HA3	1:q:607:TRP:HB3	1.95	0.48
1:r:261:SER:HB3	1:r:275:PHE:CD1	2.49	0.48
1:r:398:GLU:OE1	1:r:398:GLU:HA	2.14	0.48
1:r:563:GLU:OE2	1:r:613:TYR:OH	2.17	0.48
1:s:296:ARG:HH12	1:s:300:ARG:HB2	1.79	0.48
1:s:398:GLU:OE1	1:s:398:GLU:HA	2.14	0.48
1:s:610:ARG:NH1	1:s:634:LEU:O	2.47	0.48
1:u:261:SER:HB3	1:u:275:PHE:CD1	2.49	0.48
1:v:721:TYR:HH	1:x:695:TRP:HZ2	1.60	0.48
1:y:398:GLU:OE1	1:y:398:GLU:HA	2.14	0.48
1:7:559:MET:SD	1:7:726:PRO:CG	2.95	0.48
1:8:245:ARG:HD3	1:8:365:PRO:HG2	1.96	0.48
1:A:400:PHE:HD1	1:I:693:LYS:HE2	1.78	0.47
1:B:294:SER:O	1:B:297:ASP:N	2.47	0.47
1:B:735:ASN:ND2	1:J:395:TYR:OH	2.46	0.47
1:C:695:TRP:HB3	1:2:394:PHE:O	2.14	0.47
1:D:296:ARG:HH12	1:D:300:ARG:HB2	1.79	0.47
1:F:398:GLU:OE1	1:F:398:GLU:HA	2.14	0.47
1:F:559:MET:SD	1:F:726:PRO:CG	2.95	0.47
1:H:394:PHE:O	1:Y:695:TRP:HB3	2.14	0.47
1:I:657:ASP:OD1	1:I:657:ASP:O	2.31	0.47
1:L:618:ILE:O	1:L:637:GLY:HA3	2.14	0.47
1:M:394:PHE:O	1:2:695:TRP:HB3	2.13	0.47
1:N:261:SER:HB3	1:N:275:PHE:CD1	2.49	0.47
1:O:735:ASN:ND2	1:g:395:TYR:OH	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:559:MET:CE	1:R:725:ARG:HA	2.44	0.47
1:R:618:ILE:O	1:R:637:GLY:HA3	2.14	0.47
1:U:618:ILE:O	1:U:637:GLY:HA3	2.14	0.47
1:V:559:MET:SD	1:V:726:PRO:CG	2.95	0.47
1:X:395:TYR:OH	1:5:735:ASN:ND2	2.46	0.47
1:1:296:ARG:HH12	1:1:300:ARG:HB2	1.79	0.47
1:3:695:TRP:HB3	1:i:394:PHE:O	2.14	0.47
1:5:559:MET:SD	1:5:726:PRO:CG	2.95	0.47
1:5:618:ILE:O	1:5:637:GLY:HA3	2.14	0.47
1:6:229:HIS:CD2	1:6:242:THR:HG21	2.49	0.47
1:6:296:ARG:HH12	1:6:300:ARG:HB2	1.79	0.47
1:6:400:PHE:HD1	1:a:693:LYS:HE2	1.78	0.47
1:6:427:ALA:O	1:6:733:THR:HA	2.13	0.47
1:6:695:TRP:HB3	1:b:394:PHE:O	2.14	0.47
1:f:294:SER:O	1:f:297:ASP:N	2.47	0.47
1:f:559:MET:CE	1:f:725:ARG:HA	2.44	0.47
1:g:398:GLU:OE1	1:g:398:GLU:HA	2.14	0.47
1:g:693:LYS:HE2	1:h:400:PHE:HD1	1.78	0.47
1:n:296:ARG:HH12	1:n:300:ARG:HB2	1.79	0.47
1:n:394:PHE:O	1:p:695:TRP:HB3	2.13	0.47
1:p:294:SER:O	1:p:297:ASP:N	2.47	0.47
1:q:294:SER:O	1:q:297:ASP:N	2.47	0.47
1:q:610:ARG:NH1	1:q:634:LEU:O	2.47	0.47
1:u:695:TRP:HB3	1:v:394:PHE:O	2.14	0.47
1:v:610:ARG:NH1	1:v:634:LEU:O	2.47	0.47
1:w:296:ARG:HH12	1:w:300:ARG:HB2	1.79	0.47
1:x:398:GLU:HA	1:x:398:GLU:OE1	2.14	0.47
1:y:229:HIS:CD2	1:y:242:THR:HG21	2.49	0.47
1:y:735:ASN:ND2	1:z:395:TYR:OH	2.46	0.47
1:z:615:GLN:OE1	1:z:615:GLN:N	2.46	0.47
1:7:245:ARG:HD3	1:7:365:PRO:HG2	1.96	0.47
1:7:296:ARG:HH12	1:7:300:ARG:HB2	1.79	0.47
1:8:296:ARG:HH12	1:8:300:ARG:HB2	1.79	0.47
1:B:695:TRP:HB3	1:J:394:PHE:O	2.13	0.47
1:D:229:HIS:CD2	1:D:242:THR:HG21	2.49	0.47
1:D:379:TYR:OH	1:D:395:TYR:N	2.30	0.47
1:E:559:MET:SD	1:E:726:PRO:CG	2.95	0.47
1:G:695:TRP:HB3	1:I:394:PHE:O	2.14	0.47
1:J:379:TYR:HH	1:J:395:TYR:H	1.60	0.47
1:J:693:LYS:HE2	1:L:400:PHE:HD1	1.78	0.47
1:K:229:HIS:CD2	1:K:242:THR:HG21	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:313:LEU:HB3	1:K:415:TYR:HB3	1.95	0.47
1:L:296:ARG:HH12	1:L:300:ARG:HB2	1.79	0.47
1:M:559:MET:CE	1:M:725:ARG:HA	2.44	0.47
1:N:313:LEU:HB3	1:N:415:TYR:HB3	1.95	0.47
1:N:398:GLU:OE1	1:N:398:GLU:HA	2.14	0.47
1:N:695:TRP:HB3	1:P:394:PHE:O	2.14	0.47
1:O:610:ARG:NH1	1:O:634:LEU:O	2.47	0.47
1:Q:559:MET:CE	1:Q:725:ARG:HA	2.44	0.47
1:S:615:GLN:OE1	1:S:615:GLN:N	2.46	0.47
1:S:695:TRP:HB3	1:U:394:PHE:O	2.14	0.47
1:T:313:LEU:HB3	1:T:415:TYR:HB3	1.95	0.47
1:X:618:ILE:O	1:X:637:GLY:HA3	2.14	0.47
1:Y:260:ILE:HD11	1:Y:278:SER:HB3	1.97	0.47
1:Y:343:GLN:HE21	1:Y:650:LYS:HE2	1.79	0.47
1:Z:618:ILE:O	1:Z:637:GLY:HA3	2.14	0.47
1:2:245:ARG:HD3	1:2:365:PRO:HG2	1.96	0.47
1:3:398:GLU:OE1	1:3:398:GLU:HA	2.14	0.47
1:6:313:LEU:HB3	1:6:415:TYR:HB3	1.95	0.47
1:6:398:GLU:OE1	1:6:398:GLU:HA	2.14	0.47
1:6:618:ILE:O	1:6:637:GLY:HA3	2.14	0.47
1:e:296:ARG:HH12	1:e:300:ARG:HB2	1.79	0.47
1:e:559:MET:SD	1:e:726:PRO:CG	2.95	0.47
1:h:559:MET:SD	1:h:726:PRO:CG	2.95	0.47
1:i:296:ARG:HH12	1:i:300:ARG:HB2	1.79	0.47
1:j:294:SER:O	1:j:297:ASP:N	2.47	0.47
1:j:618:ILE:O	1:j:637:GLY:HA3	2.14	0.47
1:k:394:PHE:O	1:m:695:TRP:HB3	2.13	0.47
1:k:398:GLU:OE1	1:k:398:GLU:HA	2.14	0.47
1:m:260:ILE:HD11	1:m:278:SER:HB3	1.97	0.47
1:q:400:PHE:HD1	1:s:693:LYS:HE2	1.78	0.47
1:q:695:TRP:HB3	1:r:394:PHE:O	2.14	0.47
1:r:695:TRP:HB3	1:s:394:PHE:O	2.14	0.47
1:t:394:PHE:O	1:v:695:TRP:HB3	2.14	0.47
1:u:313:LEU:HB3	1:u:415:TYR:HB3	1.95	0.47
1:v:379:TYR:HH	1:v:395:TYR:H	1.55	0.47
1:v:618:ILE:O	1:v:637:GLY:HA3	2.14	0.47
1:y:261:SER:HB3	1:y:275:PHE:CD1	2.49	0.47
1:y:313:LEU:HB3	1:y:415:TYR:HB3	1.95	0.47
1:7:229:HIS:CD2	1:7:242:THR:HG21	2.49	0.47
1:8:229:HIS:CD2	1:8:242:THR:HG21	2.49	0.47
1:8:294:SER:O	1:8:297:ASP:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:261:SER:HB3	1:A:275:PHE:CD1	2.49	0.47
1:A:294:SER:O	1:A:297:ASP:N	2.47	0.47
1:C:343:GLN:HE21	1:C:650:LYS:HE2	1.80	0.47
1:D:618:ILE:O	1:D:637:GLY:HA3	2.14	0.47
1:H:395:TYR:OH	1:Y:735:ASN:ND2	2.46	0.47
1:I:245:ARG:HD3	1:I:365:PRO:HG2	1.96	0.47
1:J:225:SER:OG	1:J:319:ASN:N	2.45	0.47
1:K:261:SER:HB3	1:K:275:PHE:CD1	2.49	0.47
1:K:398:GLU:OE1	1:K:398:GLU:HA	2.14	0.47
1:K:481:GLY:HA3	1:K:607:TRP:HB3	1.95	0.47
1:K:610:ARG:NH1	1:K:634:LEU:O	2.47	0.47
1:K:693:LYS:HE2	1:1:400:PHE:HD1	1.78	0.47
1:N:427:ALA:O	1:N:733:THR:HA	2.13	0.47
1:N:657:ASP:OD1	1:N:657:ASP:O	2.31	0.47
1:Q:610:ARG:NH1	1:Q:634:LEU:O	2.47	0.47
1:R:695:TRP:HB3	1:S:394:PHE:O	2.14	0.47
1:S:245:ARG:HD3	1:S:365:PRO:HG2	1.96	0.47
1:S:427:ALA:O	1:S:733:THR:HA	2.13	0.47
1:T:245:ARG:HD3	1:T:365:PRO:HG2	1.96	0.47
1:T:394:PHE:O	1:f:695:TRP:HB3	2.14	0.47
1:T:615:GLN:OE1	1:T:615:GLN:N	2.46	0.47
1:T:695:TRP:HB3	1:4:394:PHE:O	2.14	0.47
1:V:260:ILE:HD11	1:V:278:SER:HB3	1.97	0.47
1:X:229:HIS:CD2	1:X:242:THR:HG21	2.49	0.47
1:Y:398:GLU:OE1	1:Y:398:GLU:HA	2.14	0.47
1:Z:245:ARG:HD3	1:Z:365:PRO:HG2	1.96	0.47
1:Z:294:SER:O	1:Z:297:ASP:N	2.47	0.47
1:Z:296:ARG:HH12	1:Z:300:ARG:HB2	1.79	0.47
1:1:427:ALA:O	1:1:733:THR:HA	2.13	0.47
1:1:615:GLN:OE1	1:1:615:GLN:N	2.46	0.47
1:3:615:GLN:OE1	1:3:615:GLN:N	2.46	0.47
1:5:610:ARG:NH1	1:5:634:LEU:O	2.47	0.47
1:a:610:ARG:NH1	1:a:634:LEU:O	2.47	0.47
1:c:313:LEU:HB3	1:c:415:TYR:HB3	1.95	0.47
1:c:610:ARG:NH1	1:c:634:LEU:O	2.47	0.47
1:d:398:GLU:OE1	1:d:398:GLU:HA	2.14	0.47
1:e:245:ARG:HD3	1:e:365:PRO:HG2	1.96	0.47
1:f:559:MET:SD	1:f:726:PRO:CG	2.95	0.47
1:h:260:ILE:HD11	1:h:278:SER:HB3	1.97	0.47
1:j:245:ARG:HD3	1:j:365:PRO:HG2	1.97	0.47
1:k:395:TYR:OH	1:m:735:ASN:ND2	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:559:MET:SD	1:k:726:PRO:CG	2.95	0.47
1:l:343:GLN:HE21	1:l:650:LYS:HE2	1.80	0.47
1:l:618:ILE:O	1:l:637:GLY:HA3	2.14	0.47
1:m:398:GLU:OE1	1:m:398:GLU:HA	2.14	0.47
1:n:395:TYR:OH	1:p:735:ASN:ND2	2.46	0.47
1:n:615:GLN:N	1:n:615:GLN:OE1	2.46	0.47
1:o:296:ARG:HH12	1:o:300:ARG:HB2	1.79	0.47
1:p:559:MET:CE	1:p:725:ARG:HA	2.44	0.47
1:q:245:ARG:HD3	1:q:365:PRO:HG2	1.96	0.47
1:q:261:SER:HB3	1:q:275:PHE:CD1	2.49	0.47
1:u:379:TYR:HH	1:u:395:TYR:H	1.60	0.47
1:v:245:ARG:HD3	1:v:365:PRO:HG2	1.97	0.47
1:v:260:ILE:HD11	1:v:278:SER:HB3	1.97	0.47
1:w:313:LEU:HB3	1:w:415:TYR:HB3	1.95	0.47
1:y:693:LYS:HE2	1:z:400:PHE:HD1	1.78	0.47
1:A:245:ARG:HD3	1:A:365:PRO:HG2	1.96	0.47
1:B:225:SER:OG	1:B:319:ASN:N	2.45	0.47
1:B:229:HIS:CD2	1:B:242:THR:HG21	2.49	0.47
1:B:261:SER:HB3	1:B:275:PHE:CD1	2.49	0.47
1:B:559:MET:CE	1:B:725:ARG:HA	2.44	0.47
1:C:245:ARG:HD3	1:C:365:PRO:HG2	1.96	0.47
1:C:296:ARG:HH12	1:C:300:ARG:HB2	1.79	0.47
1:C:313:LEU:HB3	1:C:415:TYR:HB3	1.95	0.47
1:D:610:ARG:NH1	1:D:634:LEU:O	2.47	0.47
1:F:245:ARG:HD3	1:F:365:PRO:HG2	1.97	0.47
1:H:398:GLU:OE1	1:H:398:GLU:HA	2.14	0.47
1:I:343:GLN:HE21	1:I:650:LYS:HE2	1.80	0.47
1:J:615:GLN:OE1	1:J:615:GLN:N	2.46	0.47
1:K:394:PHE:O	1:8:695:TRP:HB3	2.14	0.47
1:O:400:PHE:HD1	1:h:693:LYS:HE2	1.78	0.47
1:P:610:ARG:NH1	1:P:634:LEU:O	2.47	0.47
1:Q:229:HIS:CD2	1:Q:242:THR:HG21	2.49	0.47
1:Q:313:LEU:HB3	1:Q:415:TYR:HB3	1.95	0.47
1:S:260:ILE:HD11	1:S:278:SER:HB3	1.97	0.47
1:S:313:LEU:HB3	1:S:415:TYR:HB3	1.95	0.47
1:T:229:HIS:CD2	1:T:242:THR:HG21	2.49	0.47
1:T:296:ARG:HH12	1:T:300:ARG:HB2	1.79	0.47
1:V:693:LYS:HE2	1:5:400:PHE:HD1	1.78	0.47
1:W:343:GLN:HE21	1:W:650:LYS:HE2	1.80	0.47
1:W:618:ILE:O	1:W:637:GLY:HA3	2.14	0.47
1:Z:229:HIS:CD2	1:Z:242:THR:HG21	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:313:LEU:HB3	1:1:415:TYR:HB3	1.95	0.47
1:2:229:HIS:CD2	1:2:242:THR:HG21	2.49	0.47
1:3:559:MET:SD	1:3:726:PRO:CG	2.95	0.47
1:6:260:ILE:HD11	1:6:278:SER:HB3	1.97	0.47
1:a:229:HIS:CD2	1:a:242:THR:HG21	2.49	0.47
1:a:618:ILE:O	1:a:637:GLY:HA3	2.14	0.47
1:b:294:SER:O	1:b:297:ASP:N	2.47	0.47
1:b:559:MET:CE	1:b:725:ARG:HA	2.44	0.47
1:b:610:ARG:NH1	1:b:634:LEU:O	2.47	0.47
1:c:398:GLU:OE1	1:c:398:GLU:HA	2.14	0.47
1:c:695:TRP:HB3	1:d:394:PHE:O	2.15	0.47
1:g:229:HIS:CD2	1:g:242:THR:HG21	2.49	0.47
1:i:313:LEU:HB3	1:i:415:TYR:HB3	1.95	0.47
1:j:229:HIS:CD2	1:j:242:THR:HG21	2.49	0.47
1:j:296:ARG:HH12	1:j:300:ARG:HB2	1.79	0.47
1:m:343:GLN:HE21	1:m:650:LYS:HE2	1.80	0.47
1:n:294:SER:O	1:n:297:ASP:N	2.47	0.47
1:p:229:HIS:CD2	1:p:242:THR:HG21	2.49	0.47
1:q:618:ILE:O	1:q:637:GLY:HA3	2.14	0.47
1:s:245:ARG:HD3	1:s:365:PRO:HG2	1.97	0.47
1:t:261:SER:HB3	1:t:275:PHE:CD1	2.49	0.47
1:t:559:MET:CE	1:t:725:ARG:HA	2.44	0.47
1:u:245:ARG:HD3	1:u:365:PRO:HG2	1.96	0.47
1:u:296:ARG:HH12	1:u:300:ARG:HB2	1.79	0.47
1:u:343:GLN:HE21	1:u:650:LYS:HE2	1.80	0.47
1:w:394:PHE:O	1:x:695:TRP:HB3	2.14	0.47
1:x:615:GLN:OE1	1:x:615:GLN:N	2.46	0.47
1:y:394:PHE:O	1:7:695:TRP:HB3	2.14	0.47
1:y:481:GLY:HA3	1:y:607:TRP:HB3	1.95	0.47
1:y:610:ARG:NH1	1:y:634:LEU:O	2.47	0.47
1:z:294:SER:O	1:z:297:ASP:N	2.47	0.47
1:z:427:ALA:O	1:z:733:THR:HA	2.13	0.47
1:7:294:SER:O	1:7:297:ASP:N	2.47	0.47
1:7:343:GLN:HE21	1:7:650:LYS:HE2	1.80	0.47
1:A:313:LEU:HB3	1:A:415:TYR:HB3	1.95	0.47
1:A:343:GLN:HE21	1:A:650:LYS:HE2	1.80	0.47
1:D:398:GLU:OE1	1:D:398:GLU:HA	2.14	0.47
1:E:245:ARG:HD3	1:E:365:PRO:HG2	1.97	0.47
1:E:296:ARG:HH12	1:E:300:ARG:HB2	1.79	0.47
1:E:427:ALA:O	1:E:733:THR:HA	2.13	0.47
1:F:260:ILE:HD11	1:F:278:SER:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:693:LYS:HE2	1:I:400:PHE:HD1	1.78	0.47
1:H:229:HIS:CD2	1:H:242:THR:HG21	2.49	0.47
1:H:313:LEU:HB3	1:H:415:TYR:HB3	1.95	0.47
1:I:225:SER:OG	1:I:319:ASN:N	2.45	0.47
1:J:294:SER:O	1:J:297:ASP:N	2.47	0.47
1:L:610:ARG:NH1	1:L:634:LEU:O	2.47	0.47
1:M:261:SER:HB3	1:M:275:PHE:CD1	2.49	0.47
1:N:260:ILE:HD11	1:N:278:SER:HB3	1.97	0.47
1:N:559:MET:CE	1:N:725:ARG:HA	2.44	0.47
1:P:294:SER:O	1:P:297:ASP:N	2.47	0.47
1:P:559:MET:CE	1:P:725:ARG:HA	2.44	0.47
1:Q:398:GLU:OE1	1:Q:398:GLU:HA	2.14	0.47
1:S:296:ARG:HH12	1:S:300:ARG:HB2	1.79	0.47
1:T:260:ILE:HD11	1:T:278:SER:HB3	1.97	0.47
1:U:296:ARG:HH12	1:U:300:ARG:HB2	1.79	0.47
1:V:610:ARG:NH1	1:V:634:LEU:O	2.47	0.47
1:W:559:MET:SD	1:W:726:PRO:CG	2.95	0.47
1:Z:693:LYS:HE2	1:x:400:PHE:HD1	1.78	0.47
1:1:294:SER:O	1:1:297:ASP:N	2.47	0.47
1:1:610:ARG:NH1	1:1:634:LEU:O	2.47	0.47
1:2:260:ILE:HD11	1:2:278:SER:HB3	1.97	0.47
1:3:260:ILE:HD11	1:3:278:SER:HB3	1.97	0.47
1:4:296:ARG:HH12	1:4:300:ARG:HB2	1.79	0.47
1:b:229:HIS:CD2	1:b:242:THR:HG21	2.49	0.47
1:c:462:LYS:NZ	1:d:554:ASP:OD1	2.30	0.47
1:d:245:ARG:HD3	1:d:365:PRO:HG2	1.96	0.47
1:d:294:SER:O	1:d:297:ASP:N	2.47	0.47
1:e:427:ALA:O	1:e:733:THR:HA	2.13	0.47
1:f:229:HIS:CD2	1:f:242:THR:HG21	2.49	0.47
1:h:610:ARG:NH1	1:h:634:LEU:O	2.47	0.47
1:k:313:LEU:HB3	1:k:415:TYR:HB3	1.95	0.47
1:l:261:SER:HB3	1:l:275:PHE:CD1	2.49	0.47
1:l:559:MET:CE	1:l:725:ARG:HA	2.44	0.47
1:l:657:ASP:OD1	1:l:657:ASP:O	2.31	0.47
1:n:225:SER:OG	1:n:319:ASN:N	2.45	0.47
1:n:693:LYS:HE2	1:o:400:PHE:HD1	1.78	0.47
1:o:260:ILE:HD11	1:o:278:SER:HB3	1.97	0.47
1:p:225:SER:OG	1:p:319:ASN:N	2.45	0.47
1:p:559:MET:SD	1:p:726:PRO:CG	2.95	0.47
1:q:343:GLN:HE21	1:q:650:LYS:HE2	1.80	0.47
1:r:229:HIS:CD2	1:r:242:THR:HG21	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:296:ARG:HH12	1:r:300:ARG:HB2	1.79	0.47
1:s:343:GLN:HE21	1:s:650:LYS:HE2	1.80	0.47
1:u:610:ARG:NH1	1:u:634:LEU:O	2.47	0.47
1:v:229:HIS:CD2	1:v:242:THR:HG21	2.49	0.47
1:z:610:ARG:NH1	1:z:634:LEU:O	2.47	0.47
1:8:261:SER:HB3	1:8:275:PHE:CD1	2.49	0.47
1:A:618:ILE:O	1:A:637:GLY:HA3	2.14	0.47
1:C:394:PHE:O	1:M:695:TRP:HB3	2.14	0.47
1:C:559:MET:CE	1:C:725:ARG:HA	2.44	0.47
1:C:610:ARG:NH1	1:C:634:LEU:O	2.47	0.47
1:D:261:SER:HB3	1:D:275:PHE:CD1	2.49	0.47
1:D:294:SER:O	1:D:297:ASP:N	2.47	0.47
1:E:343:GLN:HE21	1:E:650:LYS:HE2	1.80	0.47
1:E:357:GLY:O	1:F:477:ASN:ND2	2.47	0.47
1:E:559:MET:CE	1:E:725:ARG:HA	2.44	0.47
1:G:229:HIS:CD2	1:G:242:THR:HG21	2.49	0.47
1:G:610:ARG:NH1	1:G:634:LEU:O	2.47	0.47
1:J:261:SER:HB3	1:J:275:PHE:CD1	2.49	0.47
1:J:343:GLN:HE21	1:J:650:LYS:HE2	1.80	0.47
1:K:296:ARG:HH12	1:K:300:ARG:HB2	1.79	0.47
1:L:260:ILE:HD11	1:L:278:SER:HB3	1.97	0.47
1:M:313:LEU:HB3	1:M:415:TYR:HB3	1.95	0.47
1:P:229:HIS:CD2	1:P:242:THR:HG21	2.49	0.47
1:R:229:HIS:CD2	1:R:242:THR:HG21	2.49	0.47
1:S:229:HIS:CD2	1:S:242:THR:HG21	2.49	0.47
1:S:261:SER:HB3	1:S:275:PHE:CD1	2.49	0.47
1:T:261:SER:HB3	1:T:275:PHE:CD1	2.49	0.47
1:T:398:GLU:OE1	1:T:398:GLU:HA	2.14	0.47
1:T:427:ALA:O	1:T:733:THR:HA	2.13	0.47
1:U:229:HIS:CD2	1:U:242:THR:HG21	2.49	0.47
1:U:398:GLU:HA	1:U:398:GLU:OE1	2.14	0.47
1:W:261:SER:HB3	1:W:275:PHE:CD1	2.49	0.47
1:W:657:ASP:O	1:W:657:ASP:OD1	2.31	0.47
1:X:313:LEU:HB3	1:X:415:TYR:HB3	1.95	0.47
1:Y:296:ARG:HH12	1:Y:300:ARG:HB2	1.79	0.47
1:1:245:ARG:HD3	1:1:365:PRO:HG2	1.96	0.47
1:3:343:GLN:HE21	1:3:650:LYS:HE2	1.80	0.47
1:5:260:ILE:HD11	1:5:278:SER:HB3	1.97	0.47
1:6:657:ASP:OD1	1:6:657:ASP:O	2.31	0.47
1:a:398:GLU:OE1	1:a:398:GLU:HA	2.14	0.47
1:a:427:ALA:O	1:a:733:THR:HA	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:229:HIS:CD2	1:c:242:THR:HG21	2.49	0.47
1:d:260:ILE:HD11	1:d:278:SER:HB3	1.97	0.47
1:d:261:SER:HB3	1:d:275:PHE:CD1	2.49	0.47
1:d:427:ALA:O	1:d:733:THR:HA	2.13	0.47
1:e:559:MET:CE	1:e:725:ARG:HA	2.44	0.47
1:g:313:LEU:HB3	1:g:415:TYR:HB3	1.95	0.47
1:i:261:SER:HB3	1:i:275:PHE:CD1	2.49	0.47
1:i:343:GLN:HE21	1:i:650:LYS:HE2	1.80	0.47
1:k:343:GLN:HE21	1:k:650:LYS:HE2	1.80	0.47
1:k:610:ARG:NH1	1:k:634:LEU:O	2.47	0.47
1:l:245:ARG:HD3	1:l:365:PRO:HG2	1.96	0.47
1:n:343:GLN:HE21	1:n:650:LYS:HE2	1.80	0.47
1:p:260:ILE:HD11	1:p:278:SER:HB3	1.97	0.47
1:p:296:ARG:HH12	1:p:300:ARG:HB2	1.79	0.47
1:q:313:LEU:HB3	1:q:415:TYR:HB3	1.95	0.47
1:s:417:PHE:HD1	1:s:640:MET:HE1	1.80	0.47
1:z:245:ARG:HD3	1:z:365:PRO:HG2	1.96	0.47
1:z:313:LEU:HB3	1:z:415:TYR:HB3	1.95	0.47
1:7:261:SER:HB3	1:7:275:PHE:CD1	2.49	0.47
1:7:313:LEU:HB3	1:7:415:TYR:HB3	1.95	0.47
1:7:610:ARG:NH1	1:7:634:LEU:O	2.47	0.47
1:8:313:LEU:HB3	1:8:415:TYR:HB3	1.95	0.47
1:8:343:GLN:HE21	1:8:650:LYS:HE2	1.80	0.47
1:A:398:GLU:OE1	1:A:398:GLU:HA	2.14	0.47
1:B:260:ILE:HD11	1:B:278:SER:HB3	1.97	0.47
1:B:313:LEU:HB3	1:B:415:TYR:HB3	1.95	0.47
1:B:559:MET:SD	1:B:726:PRO:CG	2.95	0.47
1:C:260:ILE:HD11	1:C:278:SER:HB3	1.97	0.47
1:D:417:PHE:HD1	1:D:640:MET:HE1	1.80	0.47
1:D:477:ASN:ND2	1:N:357:GLY:O	2.47	0.47
1:F:229:HIS:CD2	1:F:242:THR:HG21	2.49	0.47
1:F:261:SER:HB3	1:F:275:PHE:CD1	2.49	0.47
1:F:294:SER:O	1:F:297:ASP:N	2.47	0.47
1:F:427:ALA:O	1:F:733:THR:HA	2.13	0.47
1:F:618:ILE:O	1:F:637:GLY:HA3	2.14	0.47
1:G:296:ARG:HH12	1:G:300:ARG:HB2	1.79	0.47
1:H:343:GLN:HE21	1:H:650:LYS:HE2	1.80	0.47
1:H:563:GLU:OE2	1:H:613:TYR:OH	2.17	0.47
1:H:610:ARG:NH1	1:H:634:LEU:O	2.47	0.47
1:I:417:PHE:HD1	1:I:640:MET:HE1	1.80	0.47
1:J:229:HIS:CD2	1:J:242:THR:HG21	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:245:ARG:HD3	1:K:365:PRO:HG2	1.97	0.47
1:M:615:GLN:OE1	1:M:615:GLN:N	2.46	0.47
1:N:343:GLN:HE21	1:N:650:LYS:HE2	1.80	0.47
1:N:721:TYR:HH	1:O:695:TRP:HZ2	1.62	0.47
1:O:260:ILE:HD11	1:O:278:SER:HB3	1.97	0.47
1:O:357:GLY:O	1:h:477:ASN:ND2	2.47	0.47
1:O:559:MET:CE	1:O:725:ARG:HA	2.44	0.47
1:P:343:GLN:HE21	1:P:650:LYS:HE2	1.80	0.47
1:P:615:GLN:N	1:P:615:GLN:OE1	2.46	0.47
1:R:261:SER:HB3	1:R:275:PHE:CD1	2.49	0.47
1:R:398:GLU:OE1	1:R:398:GLU:HA	2.14	0.47
1:R:417:PHE:HD1	1:R:640:MET:HE1	1.80	0.47
1:S:398:GLU:OE1	1:S:398:GLU:HA	2.14	0.47
1:U:260:ILE:HD11	1:U:278:SER:HB3	1.97	0.47
1:U:294:SER:O	1:U:297:ASP:N	2.47	0.47
1:W:245:ARG:HD3	1:W:365:PRO:HG2	1.96	0.47
1:W:559:MET:CE	1:W:725:ARG:HA	2.44	0.47
1:Z:260:ILE:HD11	1:Z:278:SER:HB3	1.97	0.47
1:Z:261:SER:HB3	1:Z:275:PHE:CD1	2.49	0.47
1:Z:695:TRP:HB3	1:x:394:PHE:O	2.14	0.47
1:2:343:GLN:HE21	1:2:650:LYS:HE2	1.80	0.47
1:3:261:SER:HB3	1:3:275:PHE:CD1	2.49	0.47
1:3:394:PHE:O	1:j:695:TRP:HB3	2.14	0.47
1:3:400:PHE:HD1	1:j:693:LYS:HE2	1.78	0.47
1:3:427:ALA:O	1:3:733:THR:HA	2.13	0.47
1:3:559:MET:CE	1:3:725:ARG:HA	2.44	0.47
1:4:229:HIS:CD2	1:4:242:THR:HG21	2.49	0.47
1:4:294:SER:O	1:4:297:ASP:N	2.47	0.47
1:4:398:GLU:OE1	1:4:398:GLU:HA	2.14	0.47
1:5:559:MET:CE	1:5:725:ARG:HA	2.44	0.47
1:6:343:GLN:HE21	1:6:650:LYS:HE2	1.80	0.47
1:6:559:MET:CE	1:6:725:ARG:HA	2.44	0.47
1:a:261:SER:HB3	1:a:275:PHE:CD1	2.49	0.47
1:a:294:SER:O	1:a:297:ASP:N	2.47	0.47
1:a:379:TYR:OH	1:a:395:TYR:N	2.30	0.47
1:a:417:PHE:HD1	1:a:640:MET:HE1	1.80	0.47
1:b:702:THR:HG22	1:e:700:GLN:HB3	1.97	0.47
1:c:427:ALA:O	1:c:733:THR:HA	2.13	0.47
1:d:296:ARG:HH12	1:d:300:ARG:HB2	1.79	0.47
1:d:401:PRO:HB3	1:f:229:HIS:ND1	2.29	0.47
1:d:610:ARG:NH1	1:d:634:LEU:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:618:ILE:O	1:d:637:GLY:HA3	2.14	0.47
1:e:343:GLN:HE21	1:e:650:LYS:HE2	1.80	0.47
1:e:615:GLN:OE1	1:e:615:GLN:N	2.46	0.47
1:f:261:SER:HB3	1:f:275:PHE:CD1	2.49	0.47
1:f:398:GLU:OE1	1:f:398:GLU:HA	2.14	0.47
1:f:417:PHE:HD1	1:f:640:MET:HE1	1.80	0.47
1:h:618:ILE:O	1:h:637:GLY:HA3	2.14	0.47
1:i:615:GLN:OE1	1:i:615:GLN:N	2.46	0.47
1:j:260:ILE:HD11	1:j:278:SER:HB3	1.97	0.47
1:j:261:SER:HB3	1:j:275:PHE:CD1	2.49	0.47
1:k:229:HIS:CD2	1:k:242:THR:HG21	2.49	0.47
1:m:296:ARG:HH12	1:m:300:ARG:HB2	1.79	0.47
1:m:615:GLN:OE1	1:m:615:GLN:N	2.46	0.47
1:n:229:HIS:CD2	1:n:242:THR:HG21	2.49	0.47
1:n:261:SER:HB3	1:n:275:PHE:CD1	2.49	0.47
1:o:610:ARG:NH1	1:o:634:LEU:O	2.47	0.47
1:p:261:SER:HB3	1:p:275:PHE:CD1	2.49	0.47
1:q:225:SER:OG	1:q:319:ASN:N	2.45	0.47
1:q:394:PHE:O	1:s:695:TRP:HB3	2.14	0.47
1:r:610:ARG:NH1	1:r:634:LEU:O	2.47	0.47
1:r:693:LYS:HE2	1:s:400:PHE:HD1	1.78	0.47
1:s:225:SER:OG	1:s:319:ASN:N	2.45	0.47
1:t:313:LEU:HB3	1:t:415:TYR:HB3	1.95	0.47
1:t:615:GLN:OE1	1:t:615:GLN:N	2.46	0.47
1:u:260:ILE:HD11	1:u:278:SER:HB3	1.97	0.47
1:u:294:SER:O	1:u:297:ASP:N	2.47	0.47
1:u:559:MET:CE	1:u:725:ARG:HA	2.44	0.47
1:v:261:SER:HB3	1:v:275:PHE:CD1	2.49	0.47
1:w:261:SER:HB3	1:w:275:PHE:CD1	2.49	0.47
1:w:343:GLN:HE21	1:w:650:LYS:HE2	1.80	0.47
1:w:615:GLN:OE1	1:w:615:GLN:N	2.46	0.47
1:x:260:ILE:HD11	1:x:278:SER:HB3	1.97	0.47
1:x:343:GLN:HE21	1:x:650:LYS:HE2	1.80	0.47
1:x:427:ALA:O	1:x:733:THR:HA	2.13	0.47
1:x:559:MET:CE	1:x:725:ARG:HA	2.44	0.47
1:y:245:ARG:HD3	1:y:365:PRO:HG2	1.96	0.47
1:y:296:ARG:HH12	1:y:300:ARG:HB2	1.79	0.47
1:7:615:GLN:OE1	1:7:615:GLN:N	2.46	0.47
1:8:610:ARG:NH1	1:8:634:LEU:O	2.47	0.47
1:A:541:LEU:O	1:A:561:THR:HG22	2.15	0.47
1:B:296:ARG:HH12	1:B:300:ARG:HB2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:244:THR:HA	1:C:679:VAL:O	2.15	0.47
1:C:294:SER:O	1:C:297:ASP:N	2.47	0.47
1:E:417:PHE:HD1	1:E:640:MET:HE1	1.80	0.47
1:F:400:PHE:HD1	1:Q:693:LYS:HE2	1.78	0.47
1:M:244:THR:HA	1:M:679:VAL:O	2.15	0.47
1:R:559:MET:SD	1:R:726:PRO:CG	2.95	0.47
1:V:343:GLN:HE21	1:V:650:LYS:HE2	1.80	0.47
1:V:477:ASN:ND2	1:5:357:GLY:O	2.47	0.47
1:Z:313:LEU:HB3	1:Z:415:TYR:HB3	1.95	0.47
1:2:261:SER:HB3	1:2:275:PHE:CD1	2.49	0.47
1:3:245:ARG:HD3	1:3:365:PRO:HG2	1.97	0.47
1:4:260:ILE:HD11	1:4:278:SER:HB3	1.97	0.47
1:6:357:GLY:O	1:a:477:ASN:ND2	2.47	0.47
1:a:229:HIS:ND1	1:u:401:PRO:HB3	2.30	0.47
1:d:229:HIS:CD2	1:d:242:THR:HG21	2.49	0.47
1:e:417:PHE:HD1	1:e:640:MET:HE1	1.80	0.47
1:f:556:ASP:OD1	1:f:557:LYS:N	2.48	0.47
1:f:615:GLN:OE1	1:f:615:GLN:N	2.46	0.47
1:h:615:GLN:OE1	1:h:615:GLN:N	2.46	0.47
1:i:398:GLU:OE1	1:i:398:GLU:HA	2.14	0.47
1:k:261:SER:HB3	1:k:275:PHE:CD1	2.49	0.47
1:k:556:ASP:OD1	1:k:557:LYS:N	2.48	0.47
1:o:225:SER:OG	1:o:319:ASN:N	2.45	0.47
1:p:313:LEU:HB3	1:p:415:TYR:HB3	1.95	0.47
1:q:398:GLU:OE1	1:q:398:GLU:HA	2.14	0.47
1:q:541:LEU:O	1:q:561:THR:HG22	2.15	0.47
1:t:244:THR:HA	1:t:679:VAL:O	2.15	0.47
1:t:398:GLU:OE1	1:t:398:GLU:HA	2.14	0.47
1:t:563:GLU:OE2	1:t:613:TYR:OH	2.17	0.47
1:w:398:GLU:OE1	1:w:398:GLU:HA	2.14	0.47
1:w:618:ILE:O	1:w:637:GLY:HA3	2.14	0.47
1:x:245:ARG:HD3	1:x:365:PRO:HG2	1.97	0.47
1:x:261:SER:HB3	1:x:275:PHE:CD1	2.49	0.47
1:x:541:LEU:O	1:x:561:THR:HG22	2.15	0.47
1:z:260:ILE:HD11	1:z:278:SER:HB3	1.97	0.47
1:z:343:GLN:HE21	1:z:650:LYS:HE2	1.80	0.47
1:8:615:GLN:N	1:8:615:GLN:OE1	2.46	0.47
1:A:225:SER:OG	1:A:319:ASN:N	2.45	0.47
1:A:394:PHE:O	1:I:695:TRP:HB3	2.14	0.47
1:B:398:GLU:HA	1:B:398:GLU:OE1	2.14	0.47
1:D:427:ALA:O	1:D:733:THR:HA	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:615:GLN:OE1	1:E:615:GLN:N	2.46	0.47
1:E:695:TRP:HB3	1:Q:394:PHE:O	2.14	0.47
1:F:225:SER:OG	1:F:319:ASN:N	2.45	0.47
1:F:296:ARG:HH12	1:F:300:ARG:HB2	1.79	0.47
1:G:229:HIS:ND1	1:W:401:PRO:HB3	2.30	0.47
1:H:261:SER:HB3	1:H:275:PHE:CD1	2.49	0.47
1:H:556:ASP:OD1	1:H:557:LYS:N	2.48	0.47
1:K:294:SER:O	1:K:297:ASP:N	2.47	0.47
1:L:343:GLN:HE21	1:L:650:LYS:HE2	1.80	0.47
1:M:398:GLU:HA	1:M:398:GLU:OE1	2.14	0.47
1:N:244:THR:HA	1:N:679:VAL:O	2.15	0.47
1:O:261:SER:HB3	1:O:275:PHE:HD1	1.80	0.47
1:P:245:ARG:HD3	1:P:365:PRO:HG2	1.96	0.47
1:Q:261:SER:HB3	1:Q:275:PHE:CD1	2.49	0.47
1:Q:427:ALA:O	1:Q:733:THR:HA	2.13	0.47
1:R:556:ASP:OD1	1:R:557:LYS:N	2.48	0.47
1:V:245:ARG:HD3	1:V:365:PRO:HG2	1.96	0.47
1:V:618:ILE:O	1:V:637:GLY:HA3	2.14	0.47
1:W:556:ASP:OD1	1:W:557:LYS:N	2.48	0.47
1:Y:417:PHE:HD1	1:Y:640:MET:HE1	1.80	0.47
1:Y:615:GLN:OE1	1:Y:615:GLN:N	2.46	0.47
1:Z:343:GLN:HE21	1:Z:650:LYS:HE2	1.80	0.47
1:Z:559:MET:CE	1:Z:725:ARG:HA	2.44	0.47
1:1:260:ILE:HD11	1:1:278:SER:HB3	1.97	0.47
1:2:261:SER:HB3	1:2:275:PHE:HD1	1.80	0.47
1:2:379:TYR:HH	1:2:395:TYR:H	1.56	0.47
1:2:417:PHE:HD1	1:2:640:MET:HE1	1.80	0.47
1:3:541:LEU:O	1:3:561:THR:HG22	2.15	0.47
1:4:261:SER:HB3	1:4:275:PHE:CD1	2.49	0.47
1:4:610:ARG:NH1	1:4:634:LEU:O	2.47	0.47
1:6:401:PRO:HB3	1:t:229:HIS:ND1	2.30	0.47
1:b:296:ARG:HH12	1:b:300:ARG:HB2	1.79	0.47
1:b:343:GLN:HE21	1:b:650:LYS:HE2	1.80	0.47
1:b:615:GLN:OE1	1:b:615:GLN:N	2.46	0.47
1:d:695:TRP:HZ2	1:q:721:TYR:OH	1.98	0.47
1:h:343:GLN:HE21	1:h:650:LYS:HE2	1.80	0.47
1:i:225:SER:OG	1:i:319:ASN:N	2.45	0.47
1:k:260:ILE:HD11	1:k:278:SER:HB3	1.97	0.47
1:l:401:PRO:HB3	1:r:229:HIS:ND1	2.30	0.47
1:l:556:ASP:OD1	1:l:557:LYS:N	2.48	0.47
1:m:417:PHE:HD1	1:m:640:MET:HE1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:343:GLN:HE21	1:o:650:LYS:HE2	1.80	0.47
1:o:541:LEU:O	1:o:561:THR:HG22	2.15	0.47
1:p:417:PHE:HD1	1:p:640:MET:HE1	1.80	0.47
1:u:244:THR:HA	1:u:679:VAL:O	2.15	0.47
1:v:261:SER:HB3	1:v:275:PHE:HD1	1.80	0.47
1:v:343:GLN:HE21	1:v:650:LYS:HE2	1.80	0.47
1:v:398:GLU:OE1	1:v:398:GLU:HA	2.14	0.47
1:v:417:PHE:HD1	1:v:640:MET:HE1	1.80	0.47
1:w:244:THR:HA	1:w:679:VAL:O	2.15	0.47
1:y:294:SER:O	1:y:297:ASP:N	2.47	0.47
1:z:261:SER:HB3	1:z:275:PHE:CD1	2.49	0.47
1:7:559:MET:CE	1:7:725:ARG:HA	2.44	0.47
1:8:260:ILE:HD11	1:8:278:SER:HB3	1.97	0.47
1:8:417:PHE:HD1	1:8:640:MET:HE1	1.80	0.47
1:8:556:ASP:OD1	1:8:557:LYS:N	2.48	0.47
1:A:260:ILE:HD11	1:A:278:SER:HB3	1.97	0.47
1:A:556:ASP:OD1	1:A:557:LYS:N	2.48	0.47
1:B:244:THR:HA	1:B:679:VAL:O	2.15	0.47
1:C:225:SER:OG	1:C:319:ASN:N	2.45	0.47
1:C:401:PRO:HB3	1:D:229:HIS:ND1	2.30	0.47
1:D:245:ARG:HD3	1:D:365:PRO:HG2	1.96	0.47
1:F:417:PHE:HD1	1:F:640:MET:HE1	1.80	0.47
1:H:260:ILE:HD11	1:H:278:SER:HB3	1.97	0.47
1:H:559:MET:SD	1:H:726:PRO:CG	2.95	0.47
1:L:225:SER:OG	1:L:319:ASN:N	2.45	0.47
1:L:244:THR:HA	1:L:679:VAL:O	2.15	0.47
1:L:245:ARG:HD3	1:L:365:PRO:HG2	1.96	0.47
1:M:261:SER:HB3	1:M:275:PHE:HD1	1.80	0.47
1:M:610:ARG:NH1	1:M:634:LEU:O	2.47	0.47
1:N:417:PHE:HD1	1:N:640:MET:HE1	1.80	0.47
1:P:260:ILE:HD11	1:P:278:SER:HB3	1.97	0.47
1:Q:244:THR:HA	1:Q:679:VAL:O	2.15	0.47
1:R:260:ILE:HD11	1:R:278:SER:HB3	1.97	0.47
1:R:615:GLN:OE1	1:R:615:GLN:N	2.46	0.47
1:S:294:SER:O	1:S:297:ASP:N	2.47	0.47
1:S:610:ARG:NH1	1:S:634:LEU:O	2.47	0.47
1:U:261:SER:HB3	1:U:275:PHE:CD1	2.49	0.47
1:U:610:ARG:NH1	1:U:634:LEU:O	2.47	0.47
1:U:615:GLN:OE1	1:U:615:GLN:N	2.46	0.47
1:V:401:PRO:HB3	1:W:229:HIS:ND1	2.30	0.47
1:V:615:GLN:OE1	1:V:615:GLN:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:417:PHE:HD1	1:W:640:MET:HE1	1.80	0.47
1:Z:556:ASP:OD1	1:Z:557:LYS:N	2.48	0.47
1:Z:610:ARG:NH1	1:Z:634:LEU:O	2.47	0.47
1:1:261:SER:HB3	1:1:275:PHE:CD1	2.49	0.47
1:1:343:GLN:HE21	1:1:650:LYS:HE2	1.80	0.47
1:2:398:GLU:HA	1:2:398:GLU:OE1	2.14	0.47
1:3:556:ASP:OD1	1:3:557:LYS:N	2.48	0.47
1:4:698:GLU:HG3	1:4:699:ILE:O	2.15	0.47
1:5:294:SER:O	1:5:297:ASP:N	2.47	0.47
1:6:244:THR:HA	1:6:679:VAL:O	2.15	0.47
1:6:417:PHE:HD1	1:6:640:MET:HE1	1.80	0.47
1:a:401:PRO:HB3	1:e:229:HIS:ND1	2.30	0.47
1:b:245:ARG:HD3	1:b:365:PRO:HG2	1.97	0.47
1:c:244:THR:HA	1:c:679:VAL:O	2.15	0.47
1:d:225:SER:OG	1:d:319:ASN:N	2.45	0.47
1:h:398:GLU:HA	1:h:398:GLU:OE1	2.14	0.47
1:i:244:THR:HA	1:i:679:VAL:O	2.15	0.47
1:j:313:LEU:HB3	1:j:415:TYR:HB3	1.95	0.47
1:j:541:LEU:O	1:j:561:THR:HG22	2.15	0.47
1:j:556:ASP:OD1	1:j:557:LYS:N	2.48	0.47
1:j:559:MET:CE	1:j:725:ARG:HA	2.44	0.47
1:j:610:ARG:NH1	1:j:634:LEU:O	2.47	0.47
1:k:229:HIS:ND1	1:s:401:PRO:HB3	2.30	0.47
1:k:541:LEU:O	1:k:561:THR:HG22	2.15	0.47
1:o:244:THR:HA	1:o:679:VAL:O	2.15	0.47
1:p:398:GLU:HA	1:p:398:GLU:OE1	2.14	0.47
1:q:260:ILE:HD11	1:q:278:SER:HB3	1.97	0.47
1:q:556:ASP:OD1	1:q:557:LYS:N	2.48	0.47
1:t:610:ARG:NH1	1:t:634:LEU:O	2.47	0.47
1:u:541:LEU:O	1:u:561:THR:HG22	2.15	0.47
1:w:225:SER:OG	1:w:319:ASN:N	2.45	0.47
1:z:352:LEU:HD21	1:z:400:PHE:HZ	1.80	0.47
1:7:556:ASP:OD1	1:7:557:LYS:N	2.48	0.47
1:8:559:MET:CE	1:8:725:ARG:HA	2.44	0.47
1:B:417:PHE:HD1	1:B:640:MET:HE1	1.80	0.46
1:C:261:SER:HB3	1:C:275:PHE:HD1	1.80	0.46
1:C:541:LEU:O	1:C:561:THR:HG22	2.15	0.46
1:C:556:ASP:OD1	1:C:557:LYS:N	2.48	0.46
1:C:698:GLU:HG3	1:C:699:ILE:O	2.15	0.46
1:E:700:GLN:HB3	1:P:702:THR:HG22	1.98	0.46
1:F:610:ARG:NH1	1:F:634:LEU:O	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:245:ARG:HD3	1:G:365:PRO:HG2	1.97	0.46
1:H:229:HIS:ND1	1:I:401:PRO:HB3	2.30	0.46
1:H:541:LEU:O	1:H:561:THR:HG22	2.15	0.46
1:I:261:SER:HB3	1:I:275:PHE:CD1	2.49	0.46
1:J:229:HIS:ND1	1:1:401:PRO:HB3	2.30	0.46
1:J:398:GLU:OE1	1:J:398:GLU:HA	2.14	0.46
1:K:225:SER:OG	1:K:319:ASN:N	2.45	0.46
1:K:244:THR:HA	1:K:679:VAL:O	2.15	0.46
1:L:559:MET:CE	1:L:725:ARG:HA	2.44	0.46
1:M:229:HIS:ND1	1:N:401:PRO:HB3	2.30	0.46
1:M:698:GLU:HG3	1:M:699:ILE:O	2.15	0.46
1:N:245:ARG:HD3	1:N:365:PRO:HG2	1.96	0.46
1:O:294:SER:O	1:O:297:ASP:N	2.47	0.46
1:P:296:ARG:HH12	1:P:300:ARG:HB2	1.79	0.46
1:P:417:PHE:HD1	1:P:640:MET:HE1	1.80	0.46
1:S:244:THR:HA	1:S:679:VAL:O	2.15	0.46
1:S:556:ASP:OD1	1:S:557:LYS:N	2.48	0.46
1:T:294:SER:O	1:T:297:ASP:N	2.47	0.46
1:T:556:ASP:OD1	1:T:557:LYS:N	2.48	0.46
1:T:610:ARG:NH1	1:T:634:LEU:O	2.47	0.46
1:U:698:GLU:HG3	1:U:699:ILE:O	2.15	0.46
1:X:261:SER:HB3	1:X:275:PHE:CD1	2.49	0.46
1:Y:698:GLU:HG3	1:Y:699:ILE:O	2.15	0.46
1:Z:417:PHE:HD1	1:Z:640:MET:HE1	1.80	0.46
1:Z:541:LEU:O	1:Z:561:THR:HG22	2.15	0.46
1:1:261:SER:HB3	1:1:275:PHE:HD1	1.80	0.46
1:1:352:LEU:HD21	1:1:400:PHE:HZ	1.81	0.46
1:2:296:ARG:HH12	1:2:300:ARG:HB2	1.79	0.46
1:3:417:PHE:HD1	1:3:640:MET:HE1	1.80	0.46
1:b:260:ILE:HD11	1:b:278:SER:HB3	1.97	0.46
1:c:261:SER:HB3	1:c:275:PHE:CD1	2.49	0.46
1:c:261:SER:HB3	1:c:275:PHE:HD1	1.80	0.46
1:c:394:PHE:O	1:e:695:TRP:HB3	2.14	0.46
1:e:387:GLN:NE2	1:q:709:ASN:OD1	2.49	0.46
1:e:398:GLU:HA	1:e:398:GLU:OE1	2.14	0.46
1:e:556:ASP:OD1	1:e:557:LYS:N	2.48	0.46
1:f:260:ILE:HD11	1:f:278:SER:HB3	1.97	0.46
1:g:261:SER:HB3	1:g:275:PHE:CD1	2.49	0.46
1:g:610:ARG:NH1	1:g:634:LEU:O	2.47	0.46
1:h:245:ARG:HD3	1:h:365:PRO:HG2	1.96	0.46
1:h:401:PRO:HB3	1:l:229:HIS:ND1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:618:ILE:O	1:i:637:GLY:HA3	2.14	0.46
1:j:343:GLN:HE21	1:j:650:LYS:HE2	1.80	0.46
1:j:417:PHE:HD1	1:j:640:MET:HE1	1.80	0.46
1:l:436:MET:CE	1:l:471:MET:HG2	2.27	0.46
1:m:698:GLU:HG3	1:m:699:ILE:O	2.15	0.46
1:n:229:HIS:ND1	1:z:401:PRO:HB3	2.30	0.46
1:n:477:ASN:ND2	1:o:357:GLY:O	2.47	0.46
1:o:245:ARG:HD3	1:o:365:PRO:HG2	1.97	0.46
1:o:556:ASP:OD1	1:o:557:LYS:N	2.48	0.46
1:t:261:SER:HB3	1:t:275:PHE:HD1	1.80	0.46
1:t:343:GLN:HE21	1:t:650:LYS:HE2	1.80	0.46
1:t:695:TRP:HB3	1:u:394:PHE:O	2.14	0.46
1:t:698:GLU:HG3	1:t:699:ILE:O	2.15	0.46
1:u:556:ASP:OD1	1:u:557:LYS:N	2.48	0.46
1:u:698:GLU:HG3	1:u:699:ILE:O	2.15	0.46
1:w:610:ARG:NH1	1:w:634:LEU:O	2.47	0.46
1:x:556:ASP:OD1	1:x:557:LYS:N	2.48	0.46
1:x:559:MET:SD	1:x:726:PRO:CG	2.95	0.46
1:y:225:SER:OG	1:y:319:ASN:N	2.45	0.46
1:7:260:ILE:HD11	1:7:278:SER:HB3	1.97	0.46
1:7:417:PHE:HD1	1:7:640:MET:HE1	1.80	0.46
1:7:698:GLU:HG3	1:7:699:ILE:O	2.15	0.46
1:8:698:GLU:HG3	1:8:699:ILE:O	2.15	0.46
1:A:260:ILE:N	1:A:276:GLY:O	2.32	0.46
1:B:261:SER:HB3	1:B:275:PHE:HD1	1.80	0.46
1:B:343:GLN:HE21	1:B:650:LYS:HE2	1.80	0.46
1:C:693:LYS:HE2	1:2:400:PHE:HD1	1.78	0.46
1:D:260:ILE:HD11	1:D:278:SER:HB3	1.97	0.46
1:E:398:GLU:HA	1:E:398:GLU:OE1	2.14	0.46
1:I:260:ILE:HD11	1:I:278:SER:HB3	1.97	0.46
1:J:556:ASP:OD1	1:J:557:LYS:N	2.48	0.46
1:L:261:SER:HB3	1:L:275:PHE:HD1	1.80	0.46
1:L:541:LEU:O	1:L:561:THR:HG22	2.15	0.46
1:L:556:ASP:OD1	1:L:557:LYS:N	2.48	0.46
1:N:229:HIS:ND1	1:g:401:PRO:HB3	2.30	0.46
1:N:610:ARG:NH1	1:N:634:LEU:O	2.47	0.46
1:O:245:ARG:HD3	1:O:365:PRO:HG2	1.96	0.46
1:P:556:ASP:OD1	1:P:557:LYS:N	2.48	0.46
1:Q:261:SER:HB3	1:Q:275:PHE:HD1	1.80	0.46
1:Q:379:TYR:HH	1:Q:395:TYR:H	1.60	0.46
1:Q:615:GLN:OE1	1:Q:615:GLN:N	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:229:HIS:ND1	1:U:401:PRO:HB3	2.30	0.46
1:T:244:THR:HA	1:T:679:VAL:O	2.15	0.46
1:T:400:PHE:HD1	1:f:693:LYS:HE2	1.78	0.46
1:V:357:GLY:O	1:X:477:ASN:ND2	2.47	0.46
1:V:398:GLU:OE1	1:V:398:GLU:HA	2.14	0.46
1:W:296:ARG:HH12	1:W:300:ARG:HB2	1.79	0.46
1:Y:610:ARG:NH1	1:Y:634:LEU:O	2.47	0.46
1:Z:698:GLU:HG3	1:Z:699:ILE:O	2.15	0.46
1:1:244:THR:HA	1:1:679:VAL:O	2.15	0.46
1:2:556:ASP:OD1	1:2:557:LYS:N	2.48	0.46
1:3:698:GLU:HG3	1:3:699:ILE:O	2.15	0.46
1:4:379:TYR:HH	1:4:395:TYR:H	1.60	0.46
1:4:615:GLN:OE1	1:4:615:GLN:N	2.46	0.46
1:5:245:ARG:HD3	1:5:365:PRO:HG2	1.96	0.46
1:5:261:SER:HB3	1:5:275:PHE:HD1	1.81	0.46
1:5:343:GLN:HE21	1:5:650:LYS:HE2	1.80	0.46
1:5:556:ASP:OD1	1:5:557:LYS:N	2.48	0.46
1:6:245:ARG:HD3	1:6:365:PRO:HG2	1.96	0.46
1:6:610:ARG:NH1	1:6:634:LEU:O	2.47	0.46
1:a:245:ARG:HD3	1:a:365:PRO:HG2	1.96	0.46
1:a:556:ASP:OD1	1:a:557:LYS:N	2.48	0.46
1:b:352:LEU:HD21	1:b:400:PHE:HZ	1.80	0.46
1:b:398:GLU:OE1	1:b:398:GLU:HA	2.14	0.46
1:b:417:PHE:HD1	1:b:640:MET:HE1	1.80	0.46
1:c:379:TYR:HH	1:c:395:TYR:H	1.60	0.46
1:d:417:PHE:HD1	1:d:640:MET:HE1	1.80	0.46
1:d:693:LYS:HE2	1:e:400:PHE:CE1	2.51	0.46
1:d:709:ASN:OD1	1:r:387:GLN:NE2	2.48	0.46
1:e:541:LEU:O	1:e:561:THR:HG22	2.15	0.46
1:g:245:ARG:HD3	1:g:365:PRO:HG2	1.96	0.46
1:i:559:MET:CE	1:i:725:ARG:HA	2.44	0.46
1:i:610:ARG:NH1	1:i:634:LEU:O	2.47	0.46
1:i:698:GLU:HG3	1:i:699:ILE:O	2.15	0.46
1:j:401:PRO:HB3	1:z:229:HIS:ND1	2.31	0.46
1:j:698:GLU:HG3	1:j:699:ILE:O	2.15	0.46
1:l:417:PHE:HD1	1:l:640:MET:HE1	1.80	0.46
1:m:610:ARG:NH1	1:m:634:LEU:O	2.47	0.46
1:n:398:GLU:OE1	1:n:398:GLU:HA	2.14	0.46
1:o:261:SER:HB3	1:o:275:PHE:HD1	1.80	0.46
1:o:417:PHE:HD1	1:o:640:MET:HE1	1.80	0.46
1:o:559:MET:CE	1:o:725:ARG:HA	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:244:THR:HA	1:p:679:VAL:O	2.15	0.46
1:r:245:ARG:HD3	1:r:365:PRO:HG2	1.96	0.46
1:r:541:LEU:O	1:r:561:THR:HG22	2.15	0.46
1:s:244:THR:HA	1:s:679:VAL:O	2.15	0.46
1:s:261:SER:HB3	1:s:275:PHE:CD1	2.49	0.46
1:s:294:SER:O	1:s:297:ASP:N	2.47	0.46
1:u:225:SER:OG	1:u:319:ASN:N	2.45	0.46
1:u:261:SER:HB3	1:u:275:PHE:HD1	1.80	0.46
1:v:296:ARG:HH12	1:v:300:ARG:HB2	1.79	0.46
1:w:698:GLU:HG3	1:w:699:ILE:O	2.15	0.46
1:x:294:SER:O	1:x:297:ASP:N	2.47	0.46
1:x:417:PHE:HD1	1:x:640:MET:HE1	1.80	0.46
1:x:698:GLU:HG3	1:x:699:ILE:O	2.15	0.46
1:z:244:THR:HA	1:z:679:VAL:O	2.15	0.46
1:z:261:SER:HB3	1:z:275:PHE:HD1	1.80	0.46
1:7:244:THR:HA	1:7:679:VAL:O	2.15	0.46
1:8:244:THR:HA	1:8:679:VAL:O	2.15	0.46
1:D:556:ASP:OD1	1:D:557:LYS:N	2.48	0.46
1:E:260:ILE:HD11	1:E:278:SER:HB3	1.97	0.46
1:E:556:ASP:OD1	1:E:557:LYS:N	2.48	0.46
1:F:229:HIS:ND1	1:G:401:PRO:HB3	2.31	0.46
1:F:343:GLN:HE21	1:F:650:LYS:HE2	1.80	0.46
1:G:541:LEU:O	1:G:561:THR:HG22	2.15	0.46
1:H:261:SER:HB3	1:H:275:PHE:HD1	1.81	0.46
1:I:556:ASP:OD1	1:I:557:LYS:N	2.48	0.46
1:J:245:ARG:HD3	1:J:365:PRO:HG2	1.96	0.46
1:J:541:LEU:O	1:J:561:THR:HG22	2.15	0.46
1:K:541:LEU:O	1:K:561:THR:HG22	2.15	0.46
1:O:343:GLN:HE21	1:O:650:LYS:HE2	1.80	0.46
1:O:556:ASP:OD1	1:O:557:LYS:N	2.48	0.46
1:P:261:SER:HB3	1:P:275:PHE:CD1	2.49	0.46
1:P:261:SER:HB3	1:P:275:PHE:HD1	1.80	0.46
1:P:398:GLU:OE1	1:P:398:GLU:HA	2.14	0.46
1:S:229:HIS:ND1	1:4:401:PRO:HB3	2.30	0.46
1:S:343:GLN:HE21	1:S:650:LYS:HE2	1.80	0.46
1:V:541:LEU:O	1:V:561:THR:HG22	2.15	0.46
1:X:245:ARG:HD3	1:X:365:PRO:HG2	1.96	0.46
1:X:401:PRO:HB3	1:6:229:HIS:ND1	2.30	0.46
1:X:556:ASP:OD1	1:X:557:LYS:N	2.48	0.46
1:X:610:ARG:NH1	1:X:634:LEU:O	2.47	0.46
1:Z:261:SER:HB3	1:Z:275:PHE:HD1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:401:PRO:HB3	1:1:229:HIS:ND1	2.31	0.46
1:2:294:SER:O	1:2:297:ASP:N	2.47	0.46
1:3:294:SER:O	1:3:297:ASP:N	2.47	0.46
1:a:260:ILE:HD11	1:a:278:SER:HB3	1.97	0.46
1:b:261:SER:HB3	1:b:275:PHE:HD1	1.80	0.46
1:b:556:ASP:OD1	1:b:557:LYS:N	2.48	0.46
1:c:351:GLN:HE21	1:e:691:ASN:ND2	2.14	0.46
1:d:244:THR:HA	1:d:679:VAL:O	2.15	0.46
1:e:260:ILE:HD11	1:e:278:SER:HB3	1.97	0.46
1:g:229:HIS:ND1	1:m:401:PRO:HB3	2.31	0.46
1:g:477:ASN:ND2	1:h:357:GLY:O	2.47	0.46
1:l:698:GLU:HG3	1:l:699:ILE:O	2.15	0.46
1:n:245:ARG:HD3	1:n:365:PRO:HG2	1.96	0.46
1:n:556:ASP:OD1	1:n:557:LYS:N	2.48	0.46
1:s:260:ILE:HD11	1:s:278:SER:HB3	1.97	0.46
1:v:556:ASP:OD1	1:v:557:LYS:N	2.48	0.46
1:v:698:GLU:HG3	1:v:699:ILE:O	2.15	0.46
1:y:244:THR:HA	1:y:679:VAL:O	2.15	0.46
1:y:541:LEU:O	1:y:561:THR:HG22	2.15	0.46
1:8:541:LEU:O	1:8:561:THR:HG22	2.15	0.46
1:A:229:HIS:ND1	1:E:401:PRO:HB3	2.31	0.46
1:B:702:THR:HG22	1:I:700:GLN:HB3	1.98	0.46
1:E:541:LEU:O	1:E:561:THR:HG22	2.15	0.46
1:F:244:THR:HA	1:F:679:VAL:O	2.15	0.46
1:I:244:THR:HA	1:I:679:VAL:O	2.15	0.46
1:J:477:ASN:ND2	1:L:357:GLY:O	2.47	0.46
1:K:261:SER:HB3	1:K:275:PHE:HD1	1.80	0.46
1:L:417:PHE:HD1	1:L:640:MET:HE1	1.80	0.46
1:M:343:GLN:HE21	1:M:650:LYS:HE2	1.80	0.46
1:N:294:SER:O	1:N:297:ASP:N	2.47	0.46
1:N:698:GLU:HG3	1:N:699:ILE:O	2.15	0.46
1:O:401:PRO:HB3	1:4:229:HIS:ND1	2.30	0.46
1:P:352:LEU:HD21	1:P:400:PHE:HZ	1.81	0.46
1:R:541:LEU:O	1:R:561:THR:HG22	2.15	0.46
1:R:693:LYS:HE2	1:S:400:PHE:HD1	1.78	0.46
1:S:709:ASN:OD1	1:4:387:GLN:NE2	2.49	0.46
1:T:343:GLN:HE21	1:T:650:LYS:HE2	1.80	0.46
1:T:401:PRO:HB3	1:c:229:HIS:ND1	2.30	0.46
1:U:225:SER:OG	1:U:319:ASN:N	2.45	0.46
1:U:379:TYR:HH	1:U:395:TYR:H	1.60	0.46
1:V:296:ARG:HH12	1:V:300:ARG:HB2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:698:GLU:HG3	1:W:699:ILE:O	2.15	0.46
1:X:229:HIS:ND1	1:Y:401:PRO:HB3	2.31	0.46
1:X:343:GLN:HE21	1:X:650:LYS:HE2	1.80	0.46
1:Y:229:HIS:ND1	1:x:401:PRO:HB3	2.31	0.46
1:2:698:GLU:HG3	1:2:699:ILE:O	2.15	0.46
1:3:401:PRO:HB3	1:m:229:HIS:ND1	2.31	0.46
1:4:693:LYS:HE2	1:f:400:PHE:HD1	1.78	0.46
1:a:709:ASN:OD1	1:u:387:GLN:NE2	2.49	0.46
1:b:261:SER:HB3	1:b:275:PHE:CD1	2.49	0.46
1:c:615:GLN:N	1:c:615:GLN:OE1	2.46	0.46
1:d:343:GLN:HE21	1:d:650:LYS:HE2	1.80	0.46
1:d:698:GLU:HG3	1:d:699:ILE:O	2.15	0.46
1:g:260:ILE:HD11	1:g:278:SER:HB3	1.97	0.46
1:g:343:GLN:HE21	1:g:650:LYS:HE2	1.80	0.46
1:g:556:ASP:OD1	1:g:557:LYS:N	2.48	0.46
1:g:698:GLU:HG3	1:g:699:ILE:O	2.15	0.46
1:h:541:LEU:O	1:h:561:THR:HG22	2.15	0.46
1:i:261:SER:HB3	1:i:275:PHE:HD1	1.80	0.46
1:k:244:THR:HA	1:k:679:VAL:O	2.15	0.46
1:k:261:SER:HB3	1:k:275:PHE:HD1	1.81	0.46
1:l:296:ARG:HH12	1:l:300:ARG:HB2	1.79	0.46
1:l:379:TYR:HH	1:l:395:TYR:H	1.60	0.46
1:n:541:LEU:O	1:n:561:THR:HG22	2.15	0.46
1:o:401:PRO:HB3	1:y:229:HIS:ND1	2.30	0.46
1:p:343:GLN:HE21	1:p:650:LYS:HE2	1.80	0.46
1:p:702:THR:HG22	1:s:700:GLN:HB3	1.98	0.46
1:s:556:ASP:OD1	1:s:557:LYS:N	2.48	0.46
1:t:556:ASP:OD1	1:t:557:LYS:N	2.48	0.46
1:w:559:MET:CE	1:w:725:ARG:HA	2.44	0.46
1:z:556:ASP:OD1	1:z:557:LYS:N	2.48	0.46
1:7:261:SER:HB3	1:7:275:PHE:HD1	1.81	0.46
1:7:541:LEU:O	1:7:561:THR:HG22	2.15	0.46
1:B:541:LEU:O	1:B:561:THR:HG22	2.15	0.46
1:C:700:GLN:HB3	1:L:702:THR:HG22	1.98	0.46
1:F:698:GLU:HG3	1:F:699:ILE:O	2.15	0.46
1:H:244:THR:HA	1:H:679:VAL:O	2.15	0.46
1:I:261:SER:HB3	1:I:275:PHE:HD1	1.80	0.46
1:I:294:SER:O	1:I:297:ASP:N	2.47	0.46
1:J:261:SER:HB3	1:J:275:PHE:HD1	1.80	0.46
1:K:229:HIS:ND1	1:L:401:PRO:HB3	2.30	0.46
1:M:225:SER:OG	1:M:318:PHE:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:401:PRO:HB3	1:3:229:HIS:ND1	2.31	0.46
1:M:556:ASP:OD1	1:M:557:LYS:N	2.48	0.46
1:N:225:SER:OG	1:N:318:PHE:HB2	2.16	0.46
1:N:541:LEU:O	1:N:561:THR:HG22	2.15	0.46
1:N:556:ASP:OD1	1:N:557:LYS:N	2.48	0.46
1:R:400:PHE:HD1	1:U:693:LYS:HE2	1.78	0.46
1:T:261:SER:HB3	1:T:275:PHE:HD1	1.80	0.46
1:T:709:ASN:OD1	1:U:387:GLN:NE2	2.49	0.46
1:U:229:HIS:ND1	1:5:401:PRO:HB3	2.30	0.46
1:X:260:ILE:HD11	1:X:278:SER:HB3	1.97	0.46
1:X:698:GLU:HG3	1:X:699:ILE:O	2.15	0.46
1:1:556:ASP:OD1	1:1:557:LYS:N	2.48	0.46
1:2:541:LEU:O	1:2:561:THR:HG22	2.15	0.46
1:4:225:SER:OG	1:4:319:ASN:N	2.45	0.46
1:4:352:LEU:HD21	1:4:400:PHE:HZ	1.80	0.46
1:6:294:SER:O	1:6:297:ASP:N	2.47	0.46
1:6:541:LEU:O	1:6:561:THR:HG22	2.15	0.46
1:6:556:ASP:OD1	1:6:557:LYS:N	2.48	0.46
1:6:698:GLU:HG3	1:6:699:ILE:O	2.15	0.46
1:a:244:THR:HA	1:a:679:VAL:O	2.15	0.46
1:b:698:GLU:HG3	1:b:699:ILE:O	2.15	0.46
1:c:294:SER:O	1:c:297:ASP:N	2.47	0.46
1:c:541:LEU:O	1:c:561:THR:HG22	2.15	0.46
1:f:245:ARG:HD3	1:f:365:PRO:HG2	1.96	0.46
1:f:541:LEU:O	1:f:561:THR:HG22	2.15	0.46
1:g:261:SER:HB3	1:g:275:PHE:HD1	1.80	0.46
1:h:261:SER:HB3	1:h:275:PHE:CD1	2.49	0.46
1:h:296:ARG:HH12	1:h:300:ARG:HB2	1.79	0.46
1:j:261:SER:HB3	1:j:275:PHE:HD1	1.81	0.46
1:k:245:ARG:HD3	1:k:365:PRO:HG2	1.96	0.46
1:k:702:THR:HG22	1:r:700:GLN:HB3	1.98	0.46
1:m:245:ARG:HD3	1:m:365:PRO:HG2	1.96	0.46
1:p:261:SER:HB3	1:p:275:PHE:HD1	1.81	0.46
1:t:225:SER:OG	1:t:318:PHE:HB2	2.16	0.46
1:t:245:ARG:HD3	1:t:365:PRO:HG2	1.96	0.46
1:t:417:PHE:HD1	1:t:640:MET:HE1	1.80	0.46
1:u:693:LYS:HE2	1:v:400:PHE:HD1	1.78	0.46
1:v:294:SER:O	1:v:297:ASP:N	2.47	0.46
1:v:541:LEU:O	1:v:561:THR:HG22	2.15	0.46
1:w:261:SER:HB3	1:w:275:PHE:HD1	1.80	0.46
1:x:296:ARG:HH12	1:x:300:ARG:HB2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:261:SER:HB3	1:y:275:PHE:HD1	1.80	0.46
1:8:261:SER:HB3	1:8:275:PHE:HD1	1.80	0.46
1:A:225:SER:OG	1:A:318:PHE:HB2	2.16	0.46
1:B:225:SER:OG	1:B:318:PHE:HB2	2.16	0.46
1:D:244:THR:HA	1:D:679:VAL:O	2.15	0.46
1:F:225:SER:OG	1:F:318:PHE:HB2	2.16	0.46
1:H:225:SER:OG	1:H:318:PHE:HB2	2.16	0.46
1:H:245:ARG:HD3	1:H:365:PRO:HG2	1.96	0.46
1:J:225:SER:OG	1:J:318:PHE:HB2	2.16	0.46
1:J:702:THR:HG22	1:K:700:GLN:HB3	1.98	0.46
1:M:260:ILE:HD11	1:M:278:SER:HB3	1.97	0.46
1:M:417:PHE:HD1	1:M:640:MET:HE1	1.80	0.46
1:P:698:GLU:HG3	1:P:699:ILE:O	2.16	0.46
1:Q:225:SER:OG	1:Q:318:PHE:HB2	2.16	0.46
1:Q:260:ILE:HD11	1:Q:278:SER:HB3	1.97	0.46
1:Q:343:GLN:HE21	1:Q:650:LYS:HE2	1.80	0.46
1:Q:541:LEU:O	1:Q:561:THR:HG22	2.15	0.46
1:R:245:ARG:HD3	1:R:365:PRO:HG2	1.96	0.46
1:R:343:GLN:HE21	1:R:650:LYS:HE2	1.80	0.46
1:S:261:SER:HB3	1:S:275:PHE:HD1	1.81	0.46
1:S:702:THR:HG22	1:T:700:GLN:HB3	1.98	0.46
1:U:261:SER:HB3	1:U:275:PHE:HD1	1.80	0.46
1:U:352:LEU:HD21	1:U:400:PHE:HZ	1.80	0.46
1:U:556:ASP:OD1	1:U:557:LYS:N	2.48	0.46
1:U:702:THR:HG22	1:V:700:GLN:HB3	1.98	0.46
1:V:261:SER:HB3	1:V:275:PHE:CD1	2.49	0.46
1:W:436:MET:CE	1:W:471:MET:HG2	2.27	0.46
1:X:225:SER:OG	1:X:318:PHE:HB2	2.16	0.46
1:X:417:PHE:HD1	1:X:640:MET:HE1	1.80	0.46
1:Y:245:ARG:HD3	1:Y:365:PRO:HG2	1.97	0.46
1:2:229:HIS:ND1	1:i:401:PRO:HB3	2.31	0.46
1:4:343:GLN:HE21	1:4:650:LYS:HE2	1.80	0.46
1:4:556:ASP:OD1	1:4:557:LYS:N	2.48	0.46
1:4:702:THR:HG22	1:h:700:GLN:HB3	1.98	0.46
1:6:225:SER:OG	1:6:318:PHE:HB2	2.16	0.46
1:b:541:LEU:O	1:b:561:THR:HG22	2.15	0.46
1:c:225:SER:OG	1:c:318:PHE:HB2	2.16	0.46
1:c:343:GLN:HE21	1:c:650:LYS:HE2	1.80	0.46
1:c:698:GLU:HG3	1:c:699:ILE:O	2.15	0.46
1:d:225:SER:OG	1:d:318:PHE:HB2	2.16	0.46
1:e:401:PRO:HB3	1:q:229:HIS:ND1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:343:GLN:HE21	1:f:650:LYS:HE2	1.80	0.46
1:g:225:SER:OG	1:g:318:PHE:HB2	2.16	0.46
1:h:417:PHE:HD1	1:h:640:MET:HE1	1.80	0.46
1:k:225:SER:OG	1:k:318:PHE:HB2	2.16	0.46
1:n:225:SER:OG	1:n:318:PHE:HB2	2.16	0.46
1:n:702:THR:HG22	1:y:700:GLN:HB3	1.98	0.46
1:p:541:LEU:O	1:p:561:THR:HG22	2.15	0.46
1:r:698:GLU:HG3	1:r:699:ILE:O	2.15	0.46
1:s:261:SER:HB3	1:s:275:PHE:HD1	1.80	0.46
1:s:541:LEU:O	1:s:561:THR:HG22	2.15	0.46
1:t:401:PRO:HB3	1:x:229:HIS:ND1	2.31	0.46
1:v:229:HIS:ND1	1:w:401:PRO:HB3	2.31	0.46
1:w:556:ASP:OD1	1:w:557:LYS:N	2.48	0.46
1:z:225:SER:OG	1:z:318:PHE:HB2	2.16	0.46
1:7:700:GLN:HB3	1:8:702:THR:HG22	1.98	0.46
1:7:702:THR:HG22	1:8:700:GLN:HB3	1.98	0.46
1:B:698:GLU:HG3	1:B:699:ILE:O	2.15	0.46
1:C:436:MET:CE	1:C:471:MET:HG2	2.27	0.46
1:D:401:PRO:HB3	1:E:229:HIS:ND1	2.31	0.46
1:G:225:SER:OG	1:G:318:PHE:HB2	2.16	0.46
1:G:700:GLN:HB3	1:H:702:THR:HG22	1.98	0.46
1:G:709:ASN:OD1	1:W:387:GLN:NE2	2.49	0.46
1:I:225:SER:OG	1:I:318:PHE:HB2	2.16	0.46
1:I:541:LEU:O	1:I:561:THR:HG22	2.15	0.46
1:K:225:SER:OG	1:K:318:PHE:HB2	2.16	0.46
1:L:225:SER:OG	1:L:318:PHE:HB2	2.16	0.46
1:L:709:ASN:OD1	1:2:387:GLN:NE2	2.49	0.46
1:M:245:ARG:HD3	1:M:365:PRO:HG2	1.96	0.46
1:M:296:ARG:HH12	1:M:300:ARG:HB2	1.79	0.46
1:O:541:LEU:O	1:O:561:THR:HG22	2.15	0.46
1:Q:294:SER:O	1:Q:297:ASP:N	2.47	0.46
1:Q:698:GLU:HG3	1:Q:699:ILE:O	2.16	0.46
1:Q:709:ASN:OD1	1:S:387:GLN:NE2	2.49	0.46
1:R:225:SER:OG	1:R:318:PHE:HB2	2.16	0.46
1:R:244:THR:HA	1:R:679:VAL:O	2.15	0.46
1:S:700:GLN:HB3	1:T:702:THR:HG22	1.98	0.46
1:U:611:ASP:OD1	1:U:729:THR:HB	2.16	0.46
1:V:244:THR:HA	1:V:679:VAL:O	2.15	0.46
1:V:417:PHE:HD1	1:V:640:MET:HE1	1.80	0.46
1:W:541:LEU:O	1:W:561:THR:HG22	2.15	0.46
1:X:261:SER:HB3	1:X:275:PHE:HD1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:225:SER:OG	1:1:318:PHE:HB2	2.16	0.46
1:3:296:ARG:HH12	1:3:300:ARG:HB2	1.79	0.46
1:4:245:ARG:HD3	1:4:365:PRO:HG2	1.97	0.46
1:4:261:SER:HB3	1:4:275:PHE:HD1	1.80	0.46
1:4:611:ASP:OD1	1:4:729:THR:HB	2.16	0.46
1:a:387:GLN:NE2	1:e:709:ASN:OD1	2.49	0.46
1:c:260:ILE:HD11	1:c:278:SER:HB3	1.97	0.46
1:l:261:SER:HB3	1:l:275:PHE:HD1	1.80	0.46
1:l:541:LEU:O	1:l:561:THR:HG22	2.15	0.46
1:o:225:SER:OG	1:o:318:PHE:HB2	2.16	0.46
1:o:702:THR:HG22	1:u:700:GLN:HB3	1.98	0.46
1:o:709:ASN:OD1	1:v:387:GLN:NE2	2.49	0.46
1:p:225:SER:OG	1:p:318:PHE:HB2	2.16	0.46
1:p:229:HIS:ND1	1:q:401:PRO:HB3	2.30	0.46
1:p:341:THR:HG1	1:p:652:THR:HG1	1.51	0.46
1:q:225:SER:OG	1:q:318:PHE:HB2	2.16	0.46
1:r:225:SER:OG	1:r:318:PHE:HB2	2.16	0.46
1:t:260:ILE:HD11	1:t:278:SER:HB3	1.97	0.46
1:z:541:LEU:O	1:z:561:THR:HG22	2.15	0.46
1:8:429:SER:N	1:8:734:ARG:O	2.43	0.46
1:C:387:GLN:NE2	1:D:709:ASN:OD1	2.49	0.46
1:E:244:THR:HA	1:E:679:VAL:O	2.15	0.46
1:E:261:SER:HB3	1:E:275:PHE:HD1	1.80	0.46
1:E:611:ASP:OD1	1:E:729:THR:HB	2.16	0.46
1:G:698:GLU:HG3	1:G:699:ILE:O	2.15	0.46
1:H:693:LYS:HE2	1:W:400:PHE:HD1	1.78	0.46
1:J:244:THR:HA	1:J:679:VAL:O	2.15	0.46
1:J:260:ILE:HD11	1:J:278:SER:HB3	1.97	0.46
1:K:387:GLN:NE2	1:7:709:ASN:OD1	2.49	0.46
1:O:379:TYR:OH	1:O:395:TYR:N	2.30	0.46
1:O:693:LYS:HE2	1:g:400:PHE:HD1	1.78	0.46
1:P:541:LEU:O	1:P:561:THR:HG22	2.15	0.46
1:R:357:GLY:O	1:U:477:ASN:ND2	2.47	0.46
1:R:401:PRO:HB3	1:V:229:HIS:ND1	2.30	0.46
1:T:541:LEU:O	1:T:561:THR:HG22	2.15	0.46
1:U:541:LEU:O	1:U:561:THR:HG22	2.15	0.46
1:W:260:ILE:HD11	1:W:278:SER:HB3	1.97	0.46
1:1:541:LEU:O	1:1:561:THR:HG22	2.15	0.46
1:2:244:THR:HA	1:2:679:VAL:O	2.15	0.46
1:3:244:THR:HA	1:3:679:VAL:O	2.15	0.46
1:4:477:ASN:ND2	1:f:357:GLY:O	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:541:LEU:O	1:5:561:THR:HG22	2.15	0.46
1:5:700:GLN:HB3	1:6:702:THR:HG22	1.98	0.46
1:6:261:SER:HB3	1:6:275:PHE:HD1	1.80	0.46
1:a:700:GLN:HB3	1:t:702:THR:HG22	1.98	0.46
1:f:225:SER:OG	1:f:318:PHE:HB2	2.16	0.46
1:f:244:THR:HA	1:f:679:VAL:O	2.15	0.46
1:f:401:PRO:HB3	1:h:229:HIS:ND1	2.30	0.46
1:g:417:PHE:HD1	1:g:640:MET:HE1	1.80	0.46
1:g:541:LEU:O	1:g:561:THR:HG22	2.15	0.46
1:i:260:ILE:HD11	1:i:278:SER:HB3	1.97	0.46
1:i:556:ASP:OD1	1:i:557:LYS:N	2.48	0.46
1:j:260:ILE:N	1:j:276:GLY:O	2.32	0.46
1:l:387:GLN:NE2	1:r:709:ASN:OD1	2.49	0.46
1:n:260:ILE:HD11	1:n:278:SER:HB3	1.97	0.46
1:n:401:PRO:HB3	1:s:229:HIS:ND1	2.30	0.46
1:o:429:SER:N	1:o:734:ARG:O	2.43	0.46
1:p:401:PRO:HB3	1:u:229:HIS:ND1	2.30	0.46
1:p:556:ASP:OD1	1:p:557:LYS:N	2.48	0.46
1:s:225:SER:OG	1:s:318:PHE:HB2	2.16	0.46
1:u:417:PHE:HD1	1:u:640:MET:HE1	1.80	0.46
1:v:373:MET:HE1	1:w:659:PRO:HG2	1.98	0.46
1:v:615:GLN:N	1:v:615:GLN:OE1	2.46	0.46
1:w:260:ILE:HD11	1:w:278:SER:HB3	1.97	0.46
1:w:351:GLN:HE21	1:x:691:ASN:ND2	2.14	0.46
1:w:611:ASP:OD1	1:w:729:THR:HB	2.16	0.46
1:y:341:THR:OG1	1:y:652:THR:OG1	2.25	0.46
1:A:709:ASN:OD1	1:E:387:GLN:NE2	2.49	0.46
1:B:556:ASP:OD1	1:B:557:LYS:N	2.48	0.46
1:E:698:GLU:HG3	1:E:699:ILE:O	2.15	0.46
1:F:541:LEU:O	1:F:561:THR:HG22	2.15	0.46
1:F:556:ASP:OD1	1:F:557:LYS:N	2.48	0.46
1:G:294:SER:O	1:G:297:ASP:N	2.47	0.46
1:H:417:PHE:HD1	1:H:640:MET:HE1	1.80	0.46
1:I:229:HIS:ND1	1:J:401:PRO:HB3	2.30	0.46
1:I:611:ASP:OD1	1:I:729:THR:HB	2.16	0.46
1:K:401:PRO:HB3	1:7:229:HIS:ND1	2.30	0.46
1:N:261:SER:HB3	1:N:275:PHE:HD1	1.80	0.46
1:R:698:GLU:HG3	1:R:699:ILE:O	2.15	0.46
1:U:245:ARG:HD3	1:U:365:PRO:HG2	1.97	0.46
1:U:343:GLN:HE21	1:U:650:LYS:HE2	1.80	0.46
1:W:261:SER:HB3	1:W:275:PHE:HD1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:702:THR:HG22	1:X:700:GLN:HB3	1.98	0.46
1:X:387:GLN:NE2	1:6:709:ASN:OD1	2.49	0.46
1:X:400:PHE:HD1	1:5:693:LYS:HE2	1.78	0.46
1:X:541:LEU:O	1:X:561:THR:HG22	2.15	0.46
1:X:611:ASP:OD1	1:X:729:THR:HB	2.16	0.46
1:Y:709:ASN:OD1	1:x:387:GLN:NE2	2.49	0.46
1:1:379:TYR:HH	1:1:395:TYR:H	1.57	0.46
1:2:615:GLN:OE1	1:2:615:GLN:N	2.46	0.46
1:2:700:GLN:HB3	1:3:702:THR:HG22	1.98	0.46
1:3:610:ARG:NH1	1:3:634:LEU:O	2.47	0.46
1:5:244:THR:HA	1:5:679:VAL:O	2.15	0.46
1:c:245:ARG:HD3	1:c:365:PRO:HG2	1.96	0.46
1:c:693:LYS:HE2	1:d:400:PHE:CE1	2.51	0.46
1:d:556:ASP:OD1	1:d:557:LYS:N	2.48	0.46
1:e:261:SER:HB3	1:e:275:PHE:HD1	1.80	0.46
1:e:611:ASP:OD1	1:e:729:THR:HB	2.16	0.46
1:g:379:TYR:HH	1:g:395:TYR:H	1.56	0.46
1:h:244:THR:HA	1:h:679:VAL:O	2.15	0.46
1:i:245:ARG:HD3	1:i:365:PRO:HG2	1.96	0.46
1:l:260:ILE:HD11	1:l:278:SER:HB3	1.97	0.46
1:n:261:SER:HB3	1:n:275:PHE:HD1	1.81	0.46
1:p:698:GLU:HG3	1:p:699:ILE:O	2.15	0.46
1:r:244:THR:HA	1:r:679:VAL:O	2.15	0.46
1:r:260:ILE:HD11	1:r:278:SER:HB3	1.97	0.46
1:t:352:LEU:HD21	1:t:400:PHE:HZ	1.80	0.46
1:v:702:THR:HG22	1:x:700:GLN:HB3	1.97	0.46
1:y:225:SER:OG	1:y:318:PHE:HB2	2.16	0.46
1:y:387:GLN:NE2	1:8:709:ASN:OD1	2.49	0.46
1:z:698:GLU:HG3	1:z:699:ILE:O	2.15	0.46
1:B:401:PRO:HB3	1:C:229:HIS:ND1	2.30	0.46
1:D:700:GLN:HB3	1:M:702:THR:HG22	1.98	0.46
1:F:401:PRO:HB3	1:R:229:HIS:ND1	2.31	0.46
1:F:611:ASP:OD1	1:F:729:THR:HB	2.16	0.46
1:F:709:ASN:OD1	1:G:387:GLN:NE2	2.49	0.46
1:G:244:THR:HA	1:G:679:VAL:O	2.15	0.46
1:G:260:ILE:HD11	1:G:278:SER:HB3	1.97	0.46
1:H:401:PRO:HB3	1:Z:229:HIS:ND1	2.31	0.46
1:L:284:PHE:HE1	1:L:374:ILE:HD13	1.81	0.46
1:M:352:LEU:HD21	1:M:400:PHE:HZ	1.80	0.46
1:N:611:ASP:OD1	1:N:729:THR:HB	2.16	0.46
1:N:702:THR:HG22	1:O:700:GLN:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:244:THR:HA	1:O:679:VAL:O	2.15	0.46
1:O:284:PHE:HE1	1:O:374:ILE:HD13	1.81	0.46
1:P:284:PHE:HE1	1:P:374:ILE:HD13	1.81	0.46
1:Q:229:HIS:ND1	1:S:401:PRO:HB3	2.31	0.46
1:Q:245:ARG:HD3	1:Q:365:PRO:HG2	1.96	0.46
1:S:541:LEU:O	1:S:561:THR:HG22	2.15	0.46
1:T:477:ASN:ND2	1:4:357:GLY:O	2.47	0.46
1:T:559:MET:CE	1:T:725:ARG:HA	2.44	0.46
1:V:261:SER:HB3	1:V:275:PHE:HD1	1.80	0.46
1:W:244:THR:HA	1:W:679:VAL:O	2.15	0.46
1:X:615:GLN:N	1:X:615:GLN:OE1	2.46	0.46
1:Y:541:LEU:O	1:Y:561:THR:HG22	2.15	0.46
1:1:417:PHE:HD1	1:1:640:MET:HE1	1.80	0.46
1:1:698:GLU:HG3	1:1:699:ILE:O	2.15	0.46
1:2:373:MET:HE1	1:i:659:PRO:HG2	1.98	0.46
1:3:387:GLN:NE2	1:m:709:ASN:OD1	2.49	0.46
1:3:691:ASN:ND2	1:i:351:GLN:HE21	2.14	0.46
1:4:541:LEU:O	1:4:561:THR:HG22	2.15	0.46
1:5:284:PHE:HE1	1:5:374:ILE:HD13	1.81	0.46
1:a:559:MET:CE	1:a:725:ARG:HA	2.44	0.46
1:c:700:GLN:HB3	1:f:702:THR:HG22	1.97	0.46
1:d:541:LEU:O	1:d:561:THR:HG22	2.15	0.46
1:e:244:THR:HA	1:e:679:VAL:O	2.15	0.46
1:f:698:GLU:HG3	1:f:699:ILE:O	2.15	0.46
1:g:700:GLN:HB3	1:l:702:THR:HG22	1.98	0.46
1:i:417:PHE:HD1	1:i:640:MET:HE1	1.80	0.46
1:i:541:LEU:O	1:i:561:THR:HG22	2.15	0.46
1:i:611:ASP:OD1	1:i:729:THR:HB	2.16	0.46
1:k:693:LYS:HE2	1:l:400:PHE:HD1	1.78	0.46
1:l:244:THR:HA	1:l:679:VAL:O	2.15	0.46
1:n:244:THR:HA	1:n:679:VAL:O	2.15	0.46
1:p:709:ASN:OD1	1:q:387:GLN:NE2	2.49	0.46
1:r:294:SER:O	1:r:297:ASP:N	2.47	0.46
1:s:611:ASP:OD1	1:s:729:THR:HB	2.16	0.46
1:t:296:ARG:HH12	1:t:300:ARG:HB2	1.79	0.46
1:v:700:GLN:HB3	1:x:702:THR:HG22	1.98	0.46
1:w:541:LEU:O	1:w:561:THR:HG22	2.15	0.46
1:x:244:THR:HA	1:x:679:VAL:O	2.15	0.46
1:x:261:SER:HB3	1:x:275:PHE:HD1	1.80	0.46
1:x:610:ARG:NH1	1:x:634:LEU:O	2.47	0.46
1:y:401:PRO:HB3	1:8:229:HIS:ND1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:698:GLU:HG3	1:y:699:ILE:O	2.15	0.46
1:7:429:SER:N	1:7:734:ARG:O	2.43	0.46
1:B:245:ARG:HD3	1:B:365:PRO:HG2	1.96	0.45
1:B:387:GLN:NE2	1:C:709:ASN:OD1	2.49	0.45
1:C:477:ASN:ND2	1:2:357:GLY:O	2.47	0.45
1:D:261:SER:HB3	1:D:275:PHE:HD1	1.80	0.45
1:D:387:GLN:NE2	1:E:709:ASN:OD1	2.49	0.45
1:D:541:LEU:O	1:D:561:THR:HG22	2.15	0.45
1:E:691:ASN:ND2	1:Q:351:GLN:HE21	2.14	0.45
1:H:691:ASN:ND2	1:W:351:GLN:HE21	2.15	0.45
1:I:709:ASN:OD1	1:J:387:GLN:NE2	2.49	0.45
1:J:611:ASP:OD1	1:J:729:THR:HB	2.16	0.45
1:K:698:GLU:HG3	1:K:699:ILE:O	2.15	0.45
1:L:229:HIS:ND1	1:2:401:PRO:HB3	2.31	0.45
1:N:709:ASN:OD1	1:g:387:GLN:NE2	2.49	0.45
1:O:387:GLN:NE2	1:4:709:ASN:OD1	2.49	0.45
1:P:611:ASP:OD1	1:P:729:THR:HB	2.16	0.45
1:S:477:ASN:ND2	1:U:357:GLY:O	2.47	0.45
1:S:559:MET:CE	1:S:725:ARG:HA	2.44	0.45
1:T:387:GLN:NE2	1:c:709:ASN:OD1	2.49	0.45
1:T:417:PHE:HD1	1:T:640:MET:HE1	1.80	0.45
1:U:709:ASN:OD1	1:5:387:GLN:NE2	2.49	0.45
1:V:284:PHE:HE1	1:V:374:ILE:HD13	1.82	0.45
1:V:429:SER:N	1:V:734:ARG:O	2.43	0.45
1:Z:260:ILE:N	1:Z:276:GLY:O	2.32	0.45
1:Z:379:TYR:HH	1:Z:395:TYR:H	1.61	0.45
1:2:284:PHE:HE1	1:2:374:ILE:HD13	1.81	0.45
1:2:559:MET:CE	1:2:725:ARG:HA	2.44	0.45
1:3:261:SER:HB3	1:3:275:PHE:HD1	1.80	0.45
1:3:379:TYR:HH	1:3:395:TYR:H	1.57	0.45
1:a:541:LEU:O	1:a:561:THR:HG22	2.15	0.45
1:b:244:THR:HA	1:b:679:VAL:O	2.15	0.45
1:b:284:PHE:HE1	1:b:374:ILE:HD13	1.81	0.45
1:d:477:ASN:ND2	1:e:357:GLY:O	2.48	0.45
1:d:611:ASP:OD1	1:d:729:THR:HB	2.16	0.45
1:e:284:PHE:HE1	1:e:374:ILE:HD13	1.81	0.45
1:e:429:SER:N	1:e:734:ARG:O	2.43	0.45
1:e:698:GLU:HG3	1:e:699:ILE:O	2.15	0.45
1:g:611:ASP:OD1	1:g:729:THR:HB	2.16	0.45
1:h:261:SER:HB3	1:h:275:PHE:HD1	1.80	0.45
1:h:284:PHE:HE1	1:h:374:ILE:HD13	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:225:SER:OG	1:i:318:PHE:HB2	2.16	0.45
1:k:400:PHE:HD1	1:m:693:LYS:HE2	1.78	0.45
1:k:417:PHE:HD1	1:k:640:MET:HE1	1.80	0.45
1:k:691:ASN:ND2	1:l:351:GLN:HE21	2.15	0.45
1:k:709:ASN:OD1	1:s:387:GLN:NE2	2.49	0.45
1:m:541:LEU:O	1:m:561:THR:HG22	2.15	0.45
1:m:556:ASP:OD1	1:m:557:LYS:N	2.48	0.45
1:n:466:ALA:HB1	1:n:474:GLN:HG2	1.99	0.45
1:n:611:ASP:OD1	1:n:729:THR:HB	2.16	0.45
1:p:245:ARG:HD3	1:p:365:PRO:HG2	1.96	0.45
1:p:387:GLN:NE2	1:u:709:ASN:OD1	2.49	0.45
1:r:343:GLN:HE21	1:r:650:LYS:HE2	1.80	0.45
1:u:225:SER:OG	1:u:318:PHE:HB2	2.16	0.45
1:u:260:ILE:N	1:u:276:GLY:O	2.32	0.45
1:u:436:MET:CE	1:u:471:MET:HG2	2.27	0.45
1:v:244:THR:HA	1:v:679:VAL:O	2.15	0.45
1:w:245:ARG:HD3	1:w:365:PRO:HG2	1.96	0.45
1:w:417:PHE:HD1	1:w:640:MET:HE1	1.80	0.45
1:w:709:ASN:OD1	1:8:387:GLN:NE2	2.49	0.45
1:x:352:LEU:HD21	1:x:400:PHE:HZ	1.81	0.45
1:y:556:ASP:OD1	1:y:557:LYS:N	2.48	0.45
1:z:284:PHE:HE1	1:z:374:ILE:HD13	1.81	0.45
1:A:401:PRO:HB3	1:B:229:HIS:ND1	2.31	0.45
1:C:225:SER:OG	1:C:318:PHE:HB2	2.16	0.45
1:C:417:PHE:HD1	1:C:640:MET:HE1	1.80	0.45
1:D:559:MET:CE	1:D:725:ARG:HA	2.44	0.45
1:D:611:ASP:OD1	1:D:729:THR:HB	2.16	0.45
1:H:387:GLN:NE2	1:Z:709:ASN:OD1	2.49	0.45
1:H:709:ASN:OD1	1:I:387:GLN:NE2	2.49	0.45
1:J:700:GLN:HB3	1:K:702:THR:HG22	1.98	0.45
1:J:709:ASN:OD1	1:1:387:GLN:NE2	2.49	0.45
1:K:417:PHE:HD1	1:K:640:MET:HE1	1.80	0.45
1:L:294:SER:O	1:L:297:ASP:N	2.47	0.45
1:O:436:MET:CE	1:O:471:MET:HG2	2.27	0.45
1:O:611:ASP:OD1	1:O:729:THR:HB	2.16	0.45
1:P:244:THR:HA	1:P:679:VAL:O	2.15	0.45
1:Q:284:PHE:HE1	1:Q:374:ILE:HD13	1.81	0.45
1:Q:556:ASP:OD1	1:Q:557:LYS:N	2.48	0.45
1:Q:611:ASP:OD1	1:Q:729:THR:HB	2.16	0.45
1:R:261:SER:HB3	1:R:275:PHE:HD1	1.80	0.45
1:S:417:PHE:HD1	1:S:640:MET:HE1	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:700:GLN:HB3	1:V:702:THR:HG22	1.98	0.45
1:Y:556:ASP:OD1	1:Y:557:LYS:N	2.48	0.45
1:1:284:PHE:HE1	1:1:374:ILE:HD13	1.81	0.45
1:1:693:LYS:HE2	1:8:400:PHE:HD1	1.78	0.45
1:2:702:THR:HG22	1:3:700:GLN:HB3	1.98	0.45
1:3:357:GLY:O	1:j:477:ASN:ND2	2.47	0.45
1:3:477:ASN:ND2	1:i:357:GLY:O	2.47	0.45
1:4:700:GLN:HB3	1:h:702:THR:HG22	1.98	0.45
1:5:379:TYR:OH	1:5:395:TYR:N	2.30	0.45
1:6:611:ASP:OD1	1:6:729:THR:HB	2.16	0.45
1:b:373:MET:HE1	1:c:659:PRO:HG2	1.98	0.45
1:b:611:ASP:OD1	1:b:729:THR:HB	2.16	0.45
1:c:284:PHE:HE1	1:c:374:ILE:HD13	1.81	0.45
1:c:611:ASP:OD1	1:c:729:THR:HB	2.16	0.45
1:g:244:THR:HA	1:g:679:VAL:O	2.15	0.45
1:g:615:GLN:OE1	1:g:615:GLN:N	2.46	0.45
1:i:709:ASN:OD1	1:7:387:GLN:NE2	2.49	0.45
1:j:379:TYR:HH	1:j:395:TYR:H	1.61	0.45
1:j:611:ASP:OD1	1:j:729:THR:HB	2.16	0.45
1:j:709:ASN:OD1	1:k:387:GLN:NE2	2.49	0.45
1:n:709:ASN:OD1	1:z:387:GLN:NE2	2.49	0.45
1:o:284:PHE:HE1	1:o:374:ILE:HD13	1.82	0.45
1:t:541:LEU:O	1:t:561:THR:HG22	2.15	0.45
1:w:225:SER:OG	1:w:318:PHE:HB2	2.16	0.45
1:w:284:PHE:HE1	1:w:374:ILE:HD13	1.81	0.45
1:z:693:LYS:HE2	1:7:400:PHE:HD1	1.78	0.45
1:A:244:THR:HA	1:A:679:VAL:O	2.15	0.45
1:A:387:GLN:NE2	1:B:709:ASN:OD1	2.50	0.45
1:D:379:TYR:HH	1:D:395:TYR:H	1.60	0.45
1:E:284:PHE:HE1	1:E:374:ILE:HD13	1.82	0.45
1:F:387:GLN:NE2	1:R:709:ASN:OD1	2.49	0.45
1:G:343:GLN:HE21	1:G:650:LYS:HE2	1.80	0.45
1:H:400:PHE:HD1	1:Y:693:LYS:HE2	1.78	0.45
1:H:698:GLU:HG3	1:H:699:ILE:O	2.15	0.45
1:J:466:ALA:HB1	1:J:474:GLN:HG2	1.99	0.45
1:K:556:ASP:OD1	1:K:557:LYS:N	2.48	0.45
1:L:698:GLU:HG3	1:L:699:ILE:O	2.15	0.45
1:M:541:LEU:O	1:M:561:THR:HG22	2.15	0.45
1:S:225:SER:OG	1:S:318:PHE:HB2	2.16	0.45
1:S:693:LYS:HE2	1:U:400:PHE:CE1	2.52	0.45
1:T:225:SER:OG	1:T:318:PHE:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:429:SER:N	1:T:734:ARG:O	2.43	0.45
1:V:556:ASP:OD1	1:V:557:LYS:N	2.48	0.45
1:X:429:SER:N	1:X:734:ARG:O	2.43	0.45
1:Z:477:ASN:ND2	1:x:357:GLY:O	2.47	0.45
1:2:225:SER:OG	1:2:318:PHE:HB2	2.16	0.45
1:5:417:PHE:HD1	1:5:640:MET:HE1	1.80	0.45
1:5:611:ASP:OD1	1:5:729:THR:HB	2.16	0.45
1:6:387:GLN:NE2	1:t:709:ASN:OD1	2.49	0.45
1:a:261:SER:HB3	1:a:275:PHE:HD1	1.81	0.45
1:a:357:GLY:O	1:b:477:ASN:ND2	2.47	0.45
1:a:611:ASP:OD1	1:a:729:THR:HB	2.16	0.45
1:c:556:ASP:OD1	1:c:557:LYS:N	2.48	0.45
1:f:261:SER:HB3	1:f:275:PHE:HD1	1.80	0.45
1:i:229:HIS:ND1	1:7:401:PRO:HB3	2.31	0.45
1:i:284:PHE:HE1	1:i:374:ILE:HD13	1.81	0.45
1:j:229:HIS:ND1	1:k:401:PRO:HB3	2.31	0.45
1:j:244:THR:HA	1:j:679:VAL:O	2.15	0.45
1:k:698:GLU:HG3	1:k:699:ILE:O	2.15	0.45
1:m:261:SER:HB3	1:m:275:PHE:HD1	1.80	0.45
1:m:559:MET:CE	1:m:725:ARG:HA	2.44	0.45
1:n:387:GLN:NE2	1:s:709:ASN:OD1	2.49	0.45
1:n:700:GLN:HB3	1:y:702:THR:HG22	1.98	0.45
1:o:229:HIS:ND1	1:v:401:PRO:HB3	2.31	0.45
1:o:698:GLU:HG3	1:o:699:ILE:O	2.15	0.45
1:q:244:THR:HA	1:q:679:VAL:O	2.15	0.45
1:q:611:ASP:OD1	1:q:729:THR:HB	2.16	0.45
1:s:698:GLU:HG3	1:s:699:ILE:O	2.15	0.45
1:w:357:GLY:O	1:x:477:ASN:ND2	2.47	0.45
1:z:417:PHE:HD1	1:z:640:MET:HE1	1.80	0.45
1:A:611:ASP:OD1	1:A:729:THR:HB	2.16	0.45
1:A:702:THR:HG22	1:F:700:GLN:HB3	1.98	0.45
1:C:260:ILE:N	1:C:276:GLY:O	2.32	0.45
1:C:466:ALA:HB1	1:C:474:GLN:HG2	1.99	0.45
1:D:225:SER:OG	1:D:318:PHE:HB2	2.16	0.45
1:D:698:GLU:HG3	1:D:699:ILE:O	2.15	0.45
1:E:225:SER:OG	1:E:319:ASN:N	2.45	0.45
1:F:466:ALA:HB1	1:F:474:GLN:HG2	1.99	0.45
1:G:556:ASP:OD1	1:G:557:LYS:N	2.48	0.45
1:G:611:ASP:OD1	1:G:729:THR:HB	2.16	0.45
1:K:400:PHE:CE1	1:8:693:LYS:HE2	2.52	0.45
1:K:659:PRO:HG2	1:7:373:MET:HE1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:373:MET:HE1	1:N:659:PRO:HG2	1.99	0.45
1:O:229:HIS:ND1	1:P:401:PRO:HB3	2.31	0.45
1:P:225:SER:OG	1:P:318:PHE:HB2	2.16	0.45
1:Q:417:PHE:HD1	1:Q:640:MET:HE1	1.80	0.45
1:T:611:ASP:OD1	1:T:729:THR:HB	2.16	0.45
1:U:225:SER:OG	1:U:318:PHE:HB2	2.16	0.45
1:Y:244:THR:HA	1:Y:679:VAL:O	2.15	0.45
1:Y:261:SER:HB3	1:Y:275:PHE:HD1	1.80	0.45
1:Y:700:GLN:HB3	1:Z:702:THR:HG22	1.98	0.45
1:Z:387:GLN:NE2	1:1:709:ASN:OD1	2.49	0.45
1:Z:611:ASP:OD1	1:Z:729:THR:HB	2.16	0.45
1:3:352:LEU:HD21	1:3:400:PHE:HZ	1.81	0.45
1:a:225:SER:OG	1:a:318:PHE:HB2	2.16	0.45
1:d:466:ALA:HB1	1:d:474:GLN:HG2	1.99	0.45
1:e:225:SER:OG	1:e:319:ASN:N	2.45	0.45
1:h:429:SER:N	1:h:734:ARG:O	2.43	0.45
1:j:387:GLN:NE2	1:z:709:ASN:OD1	2.49	0.45
1:j:702:THR:HG22	1:m:700:GLN:HB3	1.98	0.45
1:m:244:THR:HA	1:m:679:VAL:O	2.15	0.45
1:o:294:SER:O	1:o:297:ASP:N	2.47	0.45
1:o:611:ASP:OD1	1:o:729:THR:HB	2.16	0.45
1:o:693:LYS:HE2	1:p:400:PHE:CE1	2.52	0.45
1:r:556:ASP:OD1	1:r:557:LYS:N	2.48	0.45
1:r:691:ASN:ND2	1:s:351:GLN:HE21	2.14	0.45
1:u:466:ALA:HB1	1:u:474:GLN:HG2	1.99	0.45
1:u:477:ASN:ND2	1:v:357:GLY:O	2.47	0.45
1:v:225:SER:OG	1:v:318:PHE:HB2	2.16	0.45
1:v:284:PHE:HE1	1:v:374:ILE:HD13	1.82	0.45
1:y:343:GLN:HE21	1:y:650:LYS:HE2	1.80	0.45
1:y:417:PHE:HD1	1:y:640:MET:HE1	1.80	0.45
1:y:611:ASP:OD1	1:y:729:THR:HB	2.16	0.45
1:y:659:PRO:HG2	1:8:373:MET:HE1	1.99	0.45
1:z:379:TYR:HH	1:z:395:TYR:H	1.57	0.45
1:A:698:GLU:HG3	1:A:699:ILE:O	2.15	0.45
1:C:351:GLN:HE21	1:M:691:ASN:ND2	2.15	0.45
1:D:343:GLN:HE21	1:D:650:LYS:HE2	1.80	0.45
1:D:357:GLY:O	1:P:477:ASN:ND2	2.48	0.45
1:F:400:PHE:CE1	1:Q:693:LYS:HE2	2.52	0.45
1:G:284:PHE:HE1	1:G:374:ILE:HD13	1.81	0.45
1:G:417:PHE:HD1	1:G:640:MET:HE1	1.80	0.45
1:G:466:ALA:HB1	1:G:474:GLN:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:698:GLU:HG3	1:I:699:ILE:O	2.15	0.45
1:K:260:ILE:HD11	1:K:278:SER:HB3	1.97	0.45
1:K:343:GLN:HE21	1:K:650:LYS:HE2	1.80	0.45
1:K:611:ASP:OD1	1:K:729:THR:HB	2.16	0.45
1:K:709:ASN:OD1	1:L:387:GLN:NE2	2.49	0.45
1:M:284:PHE:HE1	1:M:374:ILE:HD13	1.81	0.45
1:M:387:GLN:NE2	1:3:709:ASN:OD1	2.49	0.45
1:Q:700:GLN:HB3	1:R:702:THR:HG22	1.98	0.45
1:R:442:GLN:HA	1:S:360:HIS:HA	1.99	0.45
1:T:373:MET:HE1	1:U:659:PRO:HG2	1.99	0.45
1:T:693:LYS:HE2	1:4:400:PHE:CE1	2.52	0.45
1:U:284:PHE:HE1	1:U:374:ILE:HD13	1.82	0.45
1:V:698:GLU:HG3	1:V:699:ILE:O	2.15	0.45
1:W:610:ARG:NH1	1:W:634:LEU:O	2.47	0.45
1:W:700:GLN:HB3	1:X:702:THR:HG22	1.98	0.45
1:X:284:PHE:HE1	1:X:374:ILE:HD13	1.82	0.45
1:Y:284:PHE:HE1	1:Y:374:ILE:HD13	1.81	0.45
1:Y:559:MET:CE	1:Y:725:ARG:HA	2.44	0.45
1:Y:611:ASP:OD1	1:Y:729:THR:HB	2.16	0.45
1:Z:244:THR:HA	1:Z:679:VAL:O	2.15	0.45
1:3:611:ASP:OD1	1:3:729:THR:HB	2.16	0.45
1:5:229:HIS:ND1	1:b:401:PRO:HB3	2.31	0.45
1:a:284:PHE:HE1	1:a:374:ILE:HD13	1.81	0.45
1:a:698:GLU:HG3	1:a:699:ILE:O	2.15	0.45
1:b:225:SER:OG	1:b:318:PHE:HB2	2.16	0.45
1:g:702:THR:HG22	1:l:700:GLN:HB3	1.98	0.45
1:l:610:ARG:NH1	1:l:634:LEU:O	2.47	0.45
1:m:611:ASP:OD1	1:m:729:THR:HB	2.16	0.45
1:o:387:GLN:NE2	1:y:709:ASN:OD1	2.50	0.45
1:r:284:PHE:HE1	1:r:374:ILE:HD13	1.82	0.45
1:r:611:ASP:OD1	1:r:729:THR:HB	2.16	0.45
1:v:559:MET:CE	1:v:725:ARG:HA	2.44	0.45
1:x:611:ASP:OD1	1:x:729:THR:HB	2.16	0.45
1:A:466:ALA:HB1	1:A:474:GLN:HG2	1.99	0.45
1:A:691:ASN:ND2	1:G:351:GLN:HE21	2.15	0.45
1:B:400:PHE:CE1	1:L:693:LYS:HE2	2.52	0.45
1:D:284:PHE:HE1	1:D:374:ILE:HD13	1.81	0.45
1:F:615:GLN:OE1	1:F:615:GLN:N	2.46	0.45
1:H:611:ASP:OD1	1:H:729:THR:HB	2.16	0.45
1:L:611:ASP:OD1	1:L:729:THR:HB	2.16	0.45
1:O:417:PHE:HD1	1:O:640:MET:HE1	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:373:MET:HE1	1:Q:659:PRO:HG2	1.98	0.45
1:R:400:PHE:CE1	1:U:693:LYS:HE2	2.52	0.45
1:S:373:MET:HE1	1:4:659:PRO:HG2	1.99	0.45
1:S:611:ASP:OD1	1:S:729:THR:HB	2.16	0.45
1:S:698:GLU:HG3	1:S:699:ILE:O	2.15	0.45
1:T:360:HIS:HA	1:f:442:GLN:HA	1.99	0.45
1:T:698:GLU:HG3	1:T:699:ILE:O	2.15	0.45
1:U:244:THR:HA	1:U:679:VAL:O	2.15	0.45
1:U:417:PHE:HD1	1:U:640:MET:HE1	1.80	0.45
1:X:244:THR:HA	1:X:679:VAL:O	2.15	0.45
1:Y:373:MET:HE1	1:x:659:PRO:HG2	1.99	0.45
1:Z:225:SER:OG	1:Z:318:PHE:HB2	2.16	0.45
1:Z:693:LYS:HE2	1:x:400:PHE:CE1	2.52	0.45
1:1:442:GLN:HA	1:8:360:HIS:HA	1.99	0.45
1:2:709:ASN:OD1	1:i:387:GLN:NE2	2.49	0.45
1:3:693:LYS:HE2	1:i:400:PHE:CE1	2.52	0.45
1:4:225:SER:OG	1:4:318:PHE:HB2	2.16	0.45
1:4:244:THR:HA	1:4:679:VAL:O	2.15	0.45
1:4:284:PHE:HE1	1:4:374:ILE:HD13	1.82	0.45
1:6:284:PHE:HE1	1:6:374:ILE:HD13	1.81	0.45
1:c:352:LEU:CD1	1:c:400:PHE:HE2	2.26	0.45
1:c:417:PHE:HD1	1:c:640:MET:HE1	1.80	0.45
1:c:691:ASN:ND2	1:d:351:GLN:HE21	2.14	0.45
1:d:615:GLN:OE1	1:d:615:GLN:N	2.46	0.45
1:g:284:PHE:HE1	1:g:374:ILE:HD13	1.82	0.45
1:h:698:GLU:HG3	1:h:699:ILE:O	2.15	0.45
1:i:477:ASN:ND2	1:j:357:GLY:O	2.47	0.45
1:k:611:ASP:OD1	1:k:729:THR:HB	2.16	0.45
1:m:284:PHE:HE1	1:m:374:ILE:HD13	1.81	0.45
1:m:466:ALA:HB1	1:m:474:GLN:HG2	1.99	0.45
1:o:691:ASN:ND2	1:p:351:GLN:HE21	2.15	0.45
1:q:466:ALA:HB1	1:q:474:GLN:HG2	1.99	0.45
1:q:698:GLU:HG3	1:q:699:ILE:O	2.16	0.45
1:r:417:PHE:HD1	1:r:640:MET:HE1	1.80	0.45
1:r:466:ALA:HB1	1:r:474:GLN:HG2	1.99	0.45
1:s:559:MET:CE	1:s:725:ARG:HA	2.44	0.45
1:t:284:PHE:HE1	1:t:374:ILE:HD13	1.81	0.45
1:t:659:PRO:HG2	1:x:373:MET:HE1	1.99	0.45
1:v:709:ASN:OD1	1:w:387:GLN:NE2	2.49	0.45
1:w:400:PHE:CE1	1:x:693:LYS:HE2	2.52	0.45
1:x:225:SER:OG	1:x:318:PHE:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:379:TYR:HH	1:x:395:TYR:H	1.58	0.45
1:z:442:GLN:HA	1:7:360:HIS:HA	1.99	0.45
1:7:354:TYR:CE2	1:7:356:LEU:HB2	2.52	0.45
1:8:284:PHE:HE1	1:8:374:ILE:HD13	1.81	0.45
1:A:261:SER:HB3	1:A:275:PHE:HD1	1.80	0.45
1:A:417:PHE:HD1	1:A:640:MET:HE1	1.80	0.45
1:B:284:PHE:HE1	1:B:374:ILE:HD13	1.82	0.45
1:B:425:SER:C	1:B:730:ARG:HG2	2.42	0.45
1:D:702:THR:HG22	1:M:700:GLN:HB3	1.98	0.45
1:E:400:PHE:CE1	1:F:693:LYS:HE2	2.52	0.45
1:G:261:SER:HB3	1:G:275:PHE:HD1	1.81	0.45
1:G:373:MET:HE1	1:W:659:PRO:HG2	1.99	0.45
1:H:373:MET:HE1	1:I:659:PRO:HG2	1.99	0.45
1:I:559:MET:CE	1:I:725:ARG:HA	2.44	0.45
1:K:352:LEU:CD1	1:K:400:PHE:HE2	2.26	0.45
1:M:559:MET:SD	1:M:726:PRO:CG	2.95	0.45
1:M:659:PRO:HG2	1:3:373:MET:HE1	1.99	0.45
1:M:709:ASN:OD1	1:N:387:GLN:NE2	2.49	0.45
1:O:225:SER:OG	1:O:318:PHE:HB2	2.16	0.45
1:P:229:HIS:ND1	1:Q:401:PRO:HB3	2.31	0.45
1:X:379:TYR:HH	1:X:395:TYR:H	1.57	0.45
1:X:709:ASN:OD1	1:Y:387:GLN:NE2	2.49	0.45
1:Y:466:ALA:HB1	1:Y:474:GLN:HG2	1.99	0.45
1:Z:691:ASN:ND2	1:x:351:GLN:HE21	2.15	0.45
1:3:351:GLN:HE21	1:j:691:ASN:ND2	2.15	0.45
1:5:225:SER:OG	1:5:318:PHE:HB2	2.16	0.45
1:5:436:MET:CE	1:5:471:MET:HG2	2.27	0.45
1:6:659:PRO:HG2	1:t:373:MET:HE1	1.99	0.45
1:a:343:GLN:HE21	1:a:650:LYS:HE2	1.80	0.45
1:e:659:PRO:HG2	1:q:373:MET:HE1	1.99	0.45
1:g:709:ASN:OD1	1:m:387:GLN:NE2	2.49	0.45
1:h:556:ASP:OD1	1:h:557:LYS:N	2.48	0.45
1:j:225:SER:OG	1:j:318:PHE:HB2	2.16	0.45
1:m:225:SER:OG	1:m:318:PHE:HB2	2.16	0.45
1:o:352:LEU:HD21	1:o:400:PHE:HZ	1.80	0.45
1:p:466:ALA:HB1	1:p:474:GLN:HG2	1.99	0.45
1:q:261:SER:HB3	1:q:275:PHE:HD1	1.80	0.45
1:q:417:PHE:HD1	1:q:640:MET:HE1	1.80	0.45
1:r:261:SER:HB3	1:r:275:PHE:HD1	1.80	0.45
1:s:284:PHE:HE1	1:s:374:ILE:HD13	1.81	0.45
1:t:387:GLN:NE2	1:x:709:ASN:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:442:GLN:HA	1:u:360:HIS:HA	1.99	0.45
1:t:559:MET:SD	1:t:726:PRO:CG	2.95	0.45
1:u:611:ASP:OD1	1:u:729:THR:HB	2.16	0.45
1:y:400:PHE:CE1	1:7:693:LYS:HE2	2.52	0.45
1:7:284:PHE:HE1	1:7:374:ILE:HD13	1.81	0.45
1:8:354:TYR:CE2	1:8:356:LEU:HB2	2.52	0.45
1:A:351:GLN:HE21	1:I:691:ASN:ND2	2.15	0.45
1:A:693:LYS:HE2	1:G:400:PHE:CE1	2.52	0.45
1:A:700:GLN:HB3	1:F:702:THR:HG22	1.98	0.45
1:B:351:GLN:HE21	1:L:691:ASN:ND2	2.15	0.45
1:B:466:ALA:HB1	1:B:474:GLN:HG2	1.99	0.45
1:B:693:LYS:HE2	1:J:400:PHE:CE1	2.52	0.45
1:C:284:PHE:HE1	1:C:374:ILE:HD13	1.82	0.45
1:E:225:SER:OG	1:E:318:PHE:HB2	2.16	0.45
1:E:354:TYR:CE2	1:E:356:LEU:HB2	2.52	0.45
1:E:466:ALA:HB1	1:E:474:GLN:HG2	1.99	0.45
1:G:691:ASN:ND2	1:I:351:GLN:HE21	2.15	0.45
1:H:693:LYS:HE2	1:W:400:PHE:CE1	2.52	0.45
1:H:705:TYR:CD2	1:H:705:TYR:O	2.70	0.45
1:I:284:PHE:HE1	1:I:374:ILE:HD13	1.82	0.45
1:J:693:LYS:HE2	1:L:400:PHE:CE1	2.52	0.45
1:J:698:GLU:HG3	1:J:699:ILE:O	2.15	0.45
1:L:352:LEU:HD21	1:L:400:PHE:HZ	1.80	0.45
1:O:709:ASN:OD1	1:P:387:GLN:NE2	2.49	0.45
1:P:425:SER:C	1:P:730:ARG:HG2	2.42	0.45
1:P:709:ASN:OD1	1:Q:387:GLN:NE2	2.49	0.45
1:Q:466:ALA:HB1	1:Q:474:GLN:HG2	1.99	0.45
1:R:354:TYR:CE2	1:R:356:LEU:HB2	2.52	0.45
1:R:437:ASN:HB2	1:S:355:VAL:CG1	2.47	0.45
1:T:352:LEU:CD1	1:T:400:PHE:HE2	2.26	0.45
1:T:355:VAL:CG1	1:f:437:ASN:HB2	2.47	0.45
1:V:400:PHE:CE1	1:X:693:LYS:HE2	2.52	0.45
1:W:354:TYR:CE2	1:W:356:LEU:HB2	2.52	0.45
1:Y:354:TYR:CE2	1:Y:356:LEU:HB2	2.52	0.45
1:Z:352:LEU:HD21	1:Z:400:PHE:HZ	1.81	0.45
1:Z:357:GLY:O	1:w:477:ASN:ND2	2.47	0.45
1:1:425:SER:C	1:1:730:ARG:HG2	2.42	0.45
1:1:700:GLN:HB3	1:w:702:THR:HG22	1.98	0.45
1:3:225:SER:OG	1:3:318:PHE:HB2	2.16	0.45
1:3:400:PHE:CE1	1:j:693:LYS:HE2	2.52	0.45
1:3:659:PRO:HG2	1:m:373:MET:HE1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:417:PHE:HD1	1:4:640:MET:HE1	1.80	0.45
1:4:693:LYS:HE2	1:f:400:PHE:CE1	2.52	0.45
1:5:709:ASN:OD1	1:b:387:GLN:NE2	2.49	0.45
1:b:425:SER:C	1:b:730:ARG:HG2	2.42	0.45
1:b:466:ALA:HB1	1:b:474:GLN:HG2	1.99	0.45
1:c:466:ALA:HB1	1:c:474:GLN:HG2	1.99	0.45
1:d:261:SER:HB3	1:d:275:PHE:HD1	1.80	0.45
1:d:437:ASN:HB2	1:e:355:VAL:CG1	2.46	0.45
1:e:354:TYR:CE2	1:e:356:LEU:HB2	2.52	0.45
1:e:466:ALA:HB1	1:e:474:GLN:HG2	1.99	0.45
1:f:284:PHE:HE1	1:f:374:ILE:HD13	1.82	0.45
1:f:354:TYR:CE2	1:f:356:LEU:HB2	2.52	0.45
1:g:693:LYS:HE2	1:h:400:PHE:CE1	2.52	0.45
1:k:357:GLY:O	1:m:477:ASN:ND2	2.48	0.45
1:k:373:MET:HE1	1:s:659:PRO:HG2	1.99	0.45
1:k:693:LYS:HE2	1:l:400:PHE:CE1	2.52	0.45
1:l:354:TYR:CE2	1:l:356:LEU:HB2	2.52	0.45
1:n:693:LYS:HE2	1:o:400:PHE:CE1	2.52	0.45
1:p:284:PHE:HE1	1:p:374:ILE:HD13	1.81	0.45
1:p:429:SER:N	1:p:734:ARG:O	2.43	0.45
1:q:442:GLN:HA	1:r:360:HIS:HA	1.99	0.45
1:r:615:GLN:OE1	1:r:615:GLN:N	2.46	0.45
1:t:400:PHE:HD1	1:v:693:LYS:HE2	1.78	0.45
1:t:611:ASP:OD1	1:t:729:THR:HB	2.16	0.45
1:t:691:ASN:ND2	1:u:351:GLN:HE21	2.15	0.45
1:u:284:PHE:HE1	1:u:374:ILE:HD13	1.82	0.45
1:y:260:ILE:HD11	1:y:278:SER:HB3	1.97	0.45
1:y:559:MET:CE	1:y:725:ARG:HA	2.44	0.45
1:z:477:ASN:ND2	1:7:357:GLY:O	2.48	0.45
1:8:352:LEU:HD21	1:8:400:PHE:HZ	1.80	0.45
1:A:425:SER:C	1:A:730:ARG:HG2	2.42	0.45
1:C:437:ASN:HB2	1:2:355:VAL:CG1	2.47	0.45
1:C:611:ASP:OD1	1:C:729:THR:HB	2.16	0.45
1:D:437:ASN:HB2	1:N:355:VAL:CG1	2.47	0.45
1:G:354:TYR:CE2	1:G:356:LEU:HB2	2.52	0.45
1:J:425:SER:C	1:J:730:ARG:HG2	2.42	0.45
1:K:705:TYR:O	1:K:705:TYR:CD2	2.70	0.45
1:M:355:VAL:CG1	1:2:437:ASN:HB2	2.47	0.45
1:M:360:HIS:HA	1:2:442:GLN:HA	1.99	0.45
1:N:373:MET:HE1	1:g:659:PRO:HG2	1.99	0.45
1:N:693:LYS:HE2	1:P:400:PHE:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:354:TYR:CE2	1:O:356:LEU:HB2	2.52	0.45
1:O:437:ASN:HB2	1:g:355:VAL:CG1	2.47	0.45
1:O:442:GLN:HA	1:g:360:HIS:HA	1.99	0.45
1:O:691:ASN:ND2	1:g:351:GLN:HE21	2.15	0.45
1:P:466:ALA:HB1	1:P:474:GLN:HG2	1.99	0.45
1:R:284:PHE:HE1	1:R:374:ILE:HD13	1.81	0.45
1:S:352:LEU:CD1	1:S:400:PHE:HE2	2.26	0.45
1:V:355:VAL:CG1	1:X:437:ASN:HB2	2.47	0.45
1:W:611:ASP:OD1	1:W:729:THR:HB	2.16	0.45
1:X:351:GLN:HE21	1:5:691:ASN:ND2	2.15	0.45
1:X:355:VAL:CG1	1:5:437:ASN:HB2	2.47	0.45
1:Y:702:THR:HG22	1:Z:700:GLN:HB3	1.97	0.45
1:Z:400:PHE:CE1	1:w:693:LYS:HE2	2.51	0.45
1:Z:466:ALA:HB1	1:Z:474:GLN:HG2	1.99	0.45
1:Z:705:TYR:CD2	1:Z:705:TYR:O	2.70	0.45
1:5:354:TYR:CE2	1:5:356:LEU:HB2	2.52	0.45
1:5:698:GLU:HG3	1:5:699:ILE:O	2.15	0.45
1:6:693:LYS:HE2	1:b:400:PHE:CE1	2.52	0.45
1:a:702:THR:HG22	1:t:700:GLN:HB3	1.98	0.45
1:b:229:HIS:ND1	1:c:401:PRO:HB3	2.31	0.45
1:b:709:ASN:OD1	1:c:387:GLN:NE2	2.49	0.45
1:d:284:PHE:HE1	1:d:374:ILE:HD13	1.81	0.45
1:e:225:SER:OG	1:e:318:PHE:HB2	2.16	0.45
1:g:425:SER:C	1:g:730:ARG:HG2	2.42	0.45
1:g:437:ASN:HB2	1:h:355:VAL:CG1	2.47	0.45
1:h:354:TYR:CE2	1:h:356:LEU:HB2	2.52	0.45
1:h:559:MET:CE	1:h:725:ARG:HA	2.44	0.45
1:j:700:GLN:HB3	1:m:702:THR:HG22	1.98	0.45
1:k:705:TYR:CD2	1:k:705:TYR:O	2.70	0.45
1:l:659:PRO:HG2	1:r:373:MET:HE1	1.99	0.45
1:m:354:TYR:CE2	1:m:356:LEU:HB2	2.52	0.45
1:n:400:PHE:CE1	1:p:693:LYS:HE2	2.52	0.45
1:p:425:SER:C	1:p:730:ARG:HG2	2.42	0.45
1:q:425:SER:C	1:q:730:ARG:HG2	2.42	0.45
1:t:360:HIS:HA	1:v:442:GLN:HA	1.99	0.45
1:t:477:ASN:ND2	1:u:357:GLY:O	2.47	0.45
1:u:693:LYS:HE2	1:v:400:PHE:CE1	2.52	0.45
1:v:466:ALA:HB1	1:v:474:GLN:HG2	1.99	0.45
1:w:354:TYR:CE2	1:w:356:LEU:HB2	2.52	0.45
1:z:425:SER:C	1:z:730:ARG:HG2	2.42	0.45
1:7:225:SER:OG	1:7:318:PHE:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:352:LEU:HD21	1:7:400:PHE:HZ	1.80	0.45
1:A:705:TYR:CD2	1:A:705:TYR:O	2.70	0.45
1:C:693:LYS:HE2	1:2:400:PHE:CE1	2.52	0.45
1:D:355:VAL:CG1	1:P:437:ASN:HB2	2.47	0.45
1:G:442:GLN:HA	1:I:360:HIS:HA	1.99	0.45
1:H:351:GLN:HE21	1:Y:691:ASN:ND2	2.15	0.45
1:H:379:TYR:HH	1:H:395:TYR:H	1.57	0.45
1:J:417:PHE:HD1	1:J:640:MET:HE1	1.80	0.45
1:K:355:VAL:CG1	1:8:437:ASN:HB2	2.47	0.45
1:L:466:ALA:HB1	1:L:474:GLN:HG2	1.99	0.45
1:M:400:PHE:HD1	1:2:693:LYS:HE2	1.78	0.45
1:M:611:ASP:OD1	1:M:729:THR:HB	2.16	0.45
1:N:284:PHE:HE1	1:N:374:ILE:HD13	1.82	0.45
1:O:351:GLN:HE21	1:h:691:ASN:ND2	2.15	0.45
1:O:698:GLU:HG3	1:O:699:ILE:O	2.15	0.45
1:R:387:GLN:NE2	1:V:709:ASN:OD1	2.49	0.45
1:S:354:TYR:CE2	1:S:356:LEU:HB2	2.52	0.45
1:T:284:PHE:HE1	1:T:374:ILE:HD13	1.81	0.45
1:V:351:GLN:HE21	1:X:691:ASN:ND2	2.15	0.45
1:V:354:TYR:CE2	1:V:356:LEU:HB2	2.52	0.45
1:V:611:ASP:OD1	1:V:729:THR:HB	2.16	0.45
1:W:260:ILE:N	1:W:276:GLY:O	2.32	0.45
1:W:284:PHE:HE1	1:W:374:ILE:HD13	1.82	0.45
1:X:360:HIS:HA	1:5:442:GLN:HA	1.99	0.45
1:X:425:SER:C	1:X:730:ARG:HG2	2.42	0.45
1:X:466:ALA:HB1	1:X:474:GLN:HG2	1.99	0.45
1:X:659:PRO:HG2	1:6:373:MET:HE1	1.99	0.45
1:Y:225:SER:OG	1:Y:318:PHE:HB2	2.16	0.45
1:1:477:ASN:ND2	1:8:357:GLY:O	2.48	0.45
1:2:425:SER:C	1:2:730:ARG:HG2	2.42	0.45
1:2:466:ALA:HB1	1:2:474:GLN:HG2	1.99	0.45
1:5:425:SER:C	1:5:730:ARG:HG2	2.42	0.45
1:a:355:VAL:CG1	1:b:437:ASN:HB2	2.47	0.45
1:h:466:ALA:HB1	1:h:474:GLN:HG2	1.99	0.45
1:h:611:ASP:OD1	1:h:729:THR:HB	2.16	0.45
1:i:354:TYR:CE2	1:i:356:LEU:HB2	2.52	0.45
1:j:466:ALA:HB1	1:j:474:GLN:HG2	1.99	0.45
1:j:705:TYR:CD2	1:j:705:TYR:O	2.70	0.45
1:k:284:PHE:HE1	1:k:374:ILE:HD13	1.81	0.45
1:k:351:GLN:HE21	1:m:691:ASN:ND2	2.15	0.45
1:k:425:SER:C	1:k:730:ARG:HG2	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:442:GLN:HA	1:l:360:HIS:HA	1.99	0.45
1:l:225:SER:OG	1:l:318:PHE:HB2	2.16	0.45
1:l:611:ASP:OD1	1:l:729:THR:HB	2.16	0.45
1:n:425:SER:C	1:n:730:ARG:HG2	2.42	0.45
1:o:466:ALA:HB1	1:o:474:GLN:HG2	1.99	0.45
1:q:400:PHE:CE1	1:s:693:LYS:HE2	2.52	0.45
1:r:354:TYR:CE2	1:r:356:LEU:HB2	2.52	0.45
1:r:559:MET:CE	1:r:725:ARG:HA	2.44	0.45
1:t:425:SER:C	1:t:730:ARG:HG2	2.42	0.45
1:u:425:SER:C	1:u:730:ARG:HG2	2.42	0.45
1:u:705:TYR:CD2	1:u:705:TYR:O	2.70	0.45
1:y:352:LEU:CD1	1:y:400:PHE:HE2	2.26	0.45
1:y:355:VAL:CG1	1:7:437:ASN:HB2	2.47	0.45
1:y:705:TYR:O	1:y:705:TYR:CD2	2.70	0.45
1:7:466:ALA:HB1	1:7:474:GLN:HG2	1.99	0.45
1:A:373:MET:HE1	1:E:659:PRO:HG2	1.99	0.44
1:A:400:PHE:CE1	1:I:693:LYS:HE2	2.52	0.44
1:B:429:SER:N	1:B:734:ARG:O	2.43	0.44
1:B:705:TYR:CD2	1:B:705:TYR:O	2.70	0.44
1:C:354:TYR:CE2	1:C:356:LEU:HB2	2.52	0.44
1:C:360:HIS:HA	1:M:442:GLN:HA	1.99	0.44
1:C:425:SER:C	1:C:730:ARG:HG2	2.42	0.44
1:C:705:TYR:O	1:C:705:TYR:CD2	2.70	0.44
1:D:400:PHE:CE1	1:P:693:LYS:HE2	2.52	0.44
1:D:425:SER:C	1:D:730:ARG:HG2	2.42	0.44
1:E:360:HIS:HA	1:F:442:GLN:HA	1.99	0.44
1:F:261:SER:HB3	1:F:275:PHE:HD1	1.81	0.44
1:F:284:PHE:HE1	1:F:374:ILE:HD13	1.82	0.44
1:F:351:GLN:HE21	1:Q:691:ASN:ND2	2.15	0.44
1:H:284:PHE:HE1	1:H:374:ILE:HD13	1.81	0.44
1:H:355:VAL:CG1	1:Y:437:ASN:HB2	2.47	0.44
1:H:357:GLY:O	1:Y:477:ASN:ND2	2.48	0.44
1:H:425:SER:C	1:H:730:ARG:HG2	2.42	0.44
1:H:442:GLN:HA	1:W:360:HIS:HA	1.99	0.44
1:H:466:ALA:HB1	1:H:474:GLN:HG2	1.99	0.44
1:I:354:TYR:CE2	1:I:356:LEU:HB2	2.52	0.44
1:K:466:ALA:HB1	1:K:474:GLN:HG2	1.99	0.44
1:M:351:GLN:HE21	1:2:691:ASN:ND2	2.15	0.44
1:M:357:GLY:O	1:2:477:ASN:ND2	2.48	0.44
1:M:425:SER:C	1:M:730:ARG:HG2	2.42	0.44
1:O:425:SER:C	1:O:730:ARG:HG2	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:425:SER:C	1:Q:730:ARG:HG2	2.42	0.44
1:Q:705:TYR:CD2	1:Q:705:TYR:O	2.70	0.44
1:R:425:SER:C	1:R:730:ARG:HG2	2.42	0.44
1:R:705:TYR:CD2	1:R:705:TYR:O	2.70	0.44
1:T:659:PRO:HG2	1:c:373:MET:HE1	2.00	0.44
1:T:691:ASN:ND2	1:4:351:GLN:HE21	2.15	0.44
1:U:466:ALA:HB1	1:U:474:GLN:HG2	1.99	0.44
1:V:387:GLN:NE2	1:W:709:ASN:OD1	2.49	0.44
1:V:466:ALA:HB1	1:V:474:GLN:HG2	1.99	0.44
1:V:559:MET:CE	1:V:725:ARG:HA	2.44	0.44
1:V:691:ASN:ND2	1:5:351:GLN:HE21	2.15	0.44
1:V:705:TYR:O	1:V:705:TYR:CD2	2.70	0.44
1:Y:425:SER:C	1:Y:730:ARG:HG2	2.42	0.44
1:Z:354:TYR:CE2	1:Z:356:LEU:HB2	2.52	0.44
1:4:466:ALA:HB1	1:4:474:GLN:HG2	1.99	0.44
1:4:705:TYR:CD2	1:4:705:TYR:O	2.70	0.44
1:6:355:VAL:CG1	1:a:437:ASN:HB2	2.47	0.44
1:c:354:TYR:CE2	1:c:356:LEU:HB2	2.52	0.44
1:c:400:PHE:CE1	1:e:693:LYS:HE2	2.51	0.44
1:c:705:TYR:O	1:c:705:TYR:CD2	2.70	0.44
1:f:387:GLN:NE2	1:h:709:ASN:OD1	2.49	0.44
1:f:705:TYR:O	1:f:705:TYR:CD2	2.70	0.44
1:g:466:ALA:HB1	1:g:474:GLN:HG2	1.99	0.44
1:g:691:ASN:ND2	1:h:351:GLN:HE21	2.15	0.44
1:i:705:TYR:CD2	1:i:705:TYR:O	2.70	0.44
1:j:352:LEU:HD21	1:j:400:PHE:HZ	1.81	0.44
1:k:355:VAL:CG1	1:m:437:ASN:HB2	2.47	0.44
1:k:379:TYR:HH	1:k:395:TYR:H	1.57	0.44
1:k:466:ALA:HB1	1:k:474:GLN:HG2	1.99	0.44
1:m:425:SER:C	1:m:730:ARG:HG2	2.42	0.44
1:n:698:GLU:HG3	1:n:699:ILE:O	2.15	0.44
1:p:611:ASP:OD1	1:p:729:THR:HB	2.16	0.44
1:p:705:TYR:CD2	1:p:705:TYR:O	2.70	0.44
1:q:351:GLN:HE21	1:s:691:ASN:ND2	2.15	0.44
1:q:691:ASN:ND2	1:r:351:GLN:HE21	2.15	0.44
1:q:705:TYR:O	1:q:705:TYR:CD2	2.70	0.44
1:r:442:GLN:HA	1:s:360:HIS:HA	1.99	0.44
1:t:351:GLN:HE21	1:v:691:ASN:ND2	2.15	0.44
1:t:355:VAL:CG1	1:v:437:ASN:HB2	2.47	0.44
1:t:466:ALA:HB1	1:t:474:GLN:HG2	1.99	0.44
1:u:354:TYR:CE2	1:u:356:LEU:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:437:ASN:HB2	1:v:355:VAL:CG1	2.48	0.44
1:v:425:SER:C	1:v:730:ARG:HG2	2.42	0.44
1:w:466:ALA:HB1	1:w:474:GLN:HG2	1.99	0.44
1:x:284:PHE:HE1	1:x:374:ILE:HD13	1.82	0.44
1:y:466:ALA:HB1	1:y:474:GLN:HG2	1.99	0.44
1:8:225:SER:OG	1:8:318:PHE:HB2	2.16	0.44
1:8:705:TYR:O	1:8:705:TYR:CD2	2.70	0.44
1:C:357:GLY:O	1:M:477:ASN:ND2	2.47	0.44
1:C:442:GLN:HA	1:2:360:HIS:HA	1.99	0.44
1:D:354:TYR:CE2	1:D:356:LEU:HB2	2.52	0.44
1:F:373:MET:HE1	1:G:659:PRO:HG2	1.99	0.44
1:G:615:GLN:OE1	1:G:615:GLN:N	2.46	0.44
1:G:702:THR:HG22	1:H:700:GLN:HB3	1.98	0.44
1:H:659:PRO:HG2	1:Z:373:MET:HE1	1.99	0.44
1:K:425:SER:C	1:K:730:ARG:HG2	2.42	0.44
1:K:559:MET:CE	1:K:725:ARG:HA	2.44	0.44
1:M:466:ALA:HB1	1:M:474:GLN:HG2	1.99	0.44
1:O:355:VAL:CG1	1:h:437:ASN:HB2	2.47	0.44
1:O:659:PRO:HG2	1:4:373:MET:HE1	1.99	0.44
1:Q:354:TYR:CE2	1:Q:356:LEU:HB2	2.52	0.44
1:Q:373:MET:HE1	1:S:659:PRO:HG2	2.00	0.44
1:S:691:ASN:ND2	1:U:351:GLN:HE21	2.15	0.44
1:T:354:TYR:CE2	1:T:356:LEU:HB2	2.52	0.44
1:U:354:TYR:CE2	1:U:356:LEU:HB2	2.52	0.44
1:U:373:MET:HE1	1:5:659:PRO:HG2	1.99	0.44
1:U:425:SER:C	1:U:730:ARG:HG2	2.42	0.44
1:U:705:TYR:CD2	1:U:705:TYR:O	2.70	0.44
1:V:437:ASN:HB2	1:5:355:VAL:CG1	2.47	0.44
1:W:225:SER:OG	1:W:318:PHE:HB2	2.16	0.44
1:W:352:LEU:HD21	1:W:400:PHE:HZ	1.80	0.44
1:X:705:TYR:CD2	1:X:705:TYR:O	2.70	0.44
1:Y:352:LEU:HD21	1:Y:400:PHE:HZ	1.80	0.44
1:1:352:LEU:CD1	1:1:400:PHE:HE2	2.26	0.44
1:3:284:PHE:HE1	1:3:374:ILE:HD13	1.82	0.44
1:4:354:TYR:CE2	1:4:356:LEU:HB2	2.52	0.44
1:6:400:PHE:CE1	1:a:693:LYS:HE2	2.52	0.44
1:a:400:PHE:CE1	1:b:693:LYS:HE2	2.52	0.44
1:a:425:SER:C	1:a:730:ARG:HG2	2.42	0.44
1:c:357:GLY:O	1:e:477:ASN:ND2	2.47	0.44
1:c:425:SER:C	1:c:730:ARG:HG2	2.42	0.44
1:d:425:SER:C	1:d:730:ARG:HG2	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:260:ILE:N	1:g:276:GLY:O	2.32	0.44
1:g:705:TYR:CD2	1:g:705:TYR:O	2.70	0.44
1:h:225:SER:OG	1:h:318:PHE:HB2	2.16	0.44
1:h:387:GLN:NE2	1:l:709:ASN:OD1	2.49	0.44
1:h:705:TYR:CD2	1:h:705:TYR:O	2.70	0.44
1:i:466:ALA:HB1	1:i:474:GLN:HG2	1.99	0.44
1:i:691:ASN:ND2	1:j:351:GLN:HE21	2.14	0.44
1:i:702:THR:HG22	1:z:700:GLN:HB3	1.98	0.44
1:j:373:MET:HE1	1:k:659:PRO:HG2	1.99	0.44
1:l:284:PHE:HE1	1:l:374:ILE:HD13	1.82	0.44
1:n:417:PHE:HD1	1:n:640:MET:HE1	1.80	0.44
1:s:354:TYR:CE2	1:s:356:LEU:HB2	2.52	0.44
1:w:229:HIS:ND1	1:8:401:PRO:HB3	2.32	0.44
1:w:705:TYR:CD2	1:w:705:TYR:O	2.70	0.44
1:y:425:SER:C	1:y:730:ARG:HG2	2.42	0.44
1:y:437:ASN:HB2	1:z:355:VAL:CG1	2.48	0.44
1:y:559:MET:SD	1:y:726:PRO:CG	2.95	0.44
1:7:705:TYR:CD2	1:7:705:TYR:O	2.70	0.44
1:8:466:ALA:HB1	1:8:474:GLN:HG2	1.99	0.44
1:A:352:LEU:HD21	1:A:400:PHE:HZ	1.81	0.44
1:A:442:GLN:HA	1:G:360:HIS:HA	1.99	0.44
1:B:355:VAL:CG1	1:L:437:ASN:HB2	2.47	0.44
1:B:437:ASN:HB2	1:J:355:VAL:CG1	2.47	0.44
1:D:360:HIS:HA	1:P:442:GLN:HA	1.99	0.44
1:E:351:GLN:HE21	1:F:691:ASN:ND2	2.15	0.44
1:E:702:THR:HG22	1:P:700:GLN:HB3	1.98	0.44
1:G:425:SER:O	1:G:730:ARG:HA	2.18	0.44
1:G:559:MET:CE	1:G:725:ARG:HA	2.44	0.44
1:J:437:ASN:HB2	1:L:355:VAL:CG1	2.47	0.44
1:K:437:ASN:HB2	1:1:355:VAL:CG1	2.48	0.44
1:K:559:MET:SD	1:K:726:PRO:CG	2.95	0.44
1:M:705:TYR:CD2	1:M:705:TYR:O	2.70	0.44
1:N:425:SER:C	1:N:730:ARG:HG2	2.42	0.44
1:N:691:ASN:ND2	1:P:351:GLN:HE21	2.15	0.44
1:N:700:GLN:HB3	1:O:702:THR:HG22	1.98	0.44
1:R:466:ALA:HB1	1:R:474:GLN:HG2	1.99	0.44
1:R:659:PRO:HG2	1:V:373:MET:HE1	2.00	0.44
1:W:425:SER:C	1:W:730:ARG:HG2	2.42	0.44
1:1:354:TYR:CE2	1:1:356:LEU:HB2	2.52	0.44
1:1:705:TYR:CD2	1:1:705:TYR:O	2.70	0.44
1:2:705:TYR:CD2	1:2:705:TYR:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:705:TYR:O	1:3:705:TYR:CD2	2.70	0.44
1:4:425:SER:C	1:4:730:ARG:HG2	2.42	0.44
1:5:702:THR:HG22	1:6:700:GLN:HB3	1.98	0.44
1:6:425:SER:C	1:6:730:ARG:HG2	2.42	0.44
1:6:691:ASN:ND2	1:b:351:GLN:HE21	2.15	0.44
1:a:354:TYR:CE2	1:a:356:LEU:HB2	2.52	0.44
1:f:466:ALA:HB1	1:f:474:GLN:HG2	1.99	0.44
1:i:425:SER:C	1:i:730:ARG:HG2	2.42	0.44
1:j:354:TYR:CE2	1:j:356:LEU:HB2	2.52	0.44
1:j:425:SER:C	1:j:730:ARG:HG2	2.42	0.44
1:k:700:GLN:HB3	1:r:702:THR:HG22	1.98	0.44
1:l:260:ILE:N	1:l:276:GLY:O	2.32	0.44
1:l:425:SER:C	1:l:730:ARG:HG2	2.42	0.44
1:m:352:LEU:HD21	1:m:400:PHE:HZ	1.80	0.44
1:n:355:VAL:CG1	1:p:437:ASN:HB2	2.47	0.44
1:n:437:ASN:HB2	1:o:355:VAL:CG1	2.47	0.44
1:o:437:ASN:HB2	1:p:355:VAL:CG1	2.47	0.44
1:r:425:SER:O	1:r:730:ARG:HA	2.18	0.44
1:t:357:GLY:O	1:v:477:ASN:ND2	2.48	0.44
1:u:691:ASN:ND2	1:v:351:GLN:HE21	2.15	0.44
1:x:425:SER:C	1:x:730:ARG:HG2	2.42	0.44
1:x:705:TYR:CD2	1:x:705:TYR:O	2.70	0.44
1:z:691:ASN:ND2	1:7:351:GLN:HE21	2.15	0.44
1:z:705:TYR:CD2	1:z:705:TYR:O	2.70	0.44
1:7:425:SER:C	1:7:730:ARG:HG2	2.42	0.44
1:8:425:SER:C	1:8:730:ARG:HG2	2.42	0.44
1:8:611:ASP:OD1	1:8:729:THR:HB	2.16	0.44
1:C:425:SER:O	1:C:730:ARG:HA	2.18	0.44
1:C:691:ASN:ND2	1:2:351:GLN:HE21	2.15	0.44
1:D:691:ASN:ND2	1:N:351:GLN:HE21	2.15	0.44
1:E:425:SER:O	1:E:730:ARG:HA	2.18	0.44
1:E:437:ASN:HB2	1:Q:355:VAL:CG1	2.48	0.44
1:F:425:SER:C	1:F:730:ARG:HG2	2.42	0.44
1:G:705:TYR:CD2	1:G:705:TYR:O	2.70	0.44
1:J:354:TYR:CE2	1:J:356:LEU:HB2	2.52	0.44
1:N:466:ALA:HB1	1:N:474:GLN:HG2	1.99	0.44
1:O:360:HIS:HA	1:h:442:GLN:HA	1.99	0.44
1:O:693:LYS:HE2	1:g:400:PHE:CE1	2.52	0.44
1:S:284:PHE:HE1	1:S:374:ILE:HD13	1.81	0.44
1:U:425:SER:O	1:U:730:ARG:HA	2.18	0.44
1:V:225:SER:OG	1:V:318:PHE:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:705:TYR:CD2	1:W:705:TYR:O	2.70	0.44
1:X:400:PHE:CE1	1:5:693:LYS:HE2	2.52	0.44
1:Y:379:TYR:HH	1:Y:395:TYR:H	1.61	0.44
1:Z:351:GLN:HE21	1:w:691:ASN:ND2	2.14	0.44
1:1:611:ASP:OD1	1:1:729:THR:HB	2.16	0.44
1:3:425:SER:C	1:3:730:ARG:HG2	2.42	0.44
1:5:466:ALA:HB1	1:5:474:GLN:HG2	1.99	0.44
1:6:466:ALA:HB1	1:6:474:GLN:HG2	1.99	0.44
1:a:360:HIS:HA	1:b:442:GLN:HA	1.99	0.44
1:b:705:TYR:CD2	1:b:705:TYR:O	2.70	0.44
1:e:425:SER:O	1:e:730:ARG:HA	2.18	0.44
1:f:425:SER:C	1:f:730:ARG:HG2	2.42	0.44
1:f:659:PRO:HG2	1:h:373:MET:HE1	2.00	0.44
1:h:352:LEU:CD1	1:h:400:PHE:HE2	2.26	0.44
1:i:693:LYS:HE2	1:j:400:PHE:CE1	2.52	0.44
1:j:284:PHE:HE1	1:j:374:ILE:HD13	1.81	0.44
1:l:705:TYR:CD2	1:l:705:TYR:O	2.70	0.44
1:n:705:TYR:O	1:n:705:TYR:CD2	2.70	0.44
1:o:659:PRO:HG2	1:y:373:MET:HE1	1.99	0.44
1:p:700:GLN:HB3	1:s:702:THR:HG22	1.98	0.44
1:t:437:ASN:HB2	1:u:355:VAL:CG1	2.47	0.44
1:t:705:TYR:CD2	1:t:705:TYR:O	2.70	0.44
1:u:442:GLN:HA	1:v:360:HIS:HA	2.00	0.44
1:v:705:TYR:O	1:v:705:TYR:CD2	2.70	0.44
1:w:425:SER:C	1:w:730:ARG:HG2	2.42	0.44
1:x:354:TYR:CE2	1:x:356:LEU:HB2	2.52	0.44
1:y:284:PHE:HE1	1:y:374:ILE:HD13	1.82	0.44
1:z:354:TYR:CE2	1:z:356:LEU:HB2	2.52	0.44
1:7:611:ASP:OD1	1:7:729:THR:HB	2.16	0.44
1:A:522:PRO:HB2	1:A:524:MET:CE	2.47	0.44
1:A:659:PRO:HG2	1:B:373:MET:HE1	2.00	0.44
1:B:611:ASP:OD1	1:B:729:THR:HB	2.16	0.44
1:B:700:GLN:HB3	1:I:702:THR:HG22	1.98	0.44
1:C:400:PHE:CE1	1:M:693:LYS:HE2	2.52	0.44
1:D:693:LYS:HE2	1:N:400:PHE:CE1	2.52	0.44
1:D:705:TYR:CD2	1:D:705:TYR:O	2.70	0.44
1:E:477:ASN:ND2	1:Q:357:GLY:O	2.47	0.44
1:E:705:TYR:CD2	1:E:705:TYR:O	2.70	0.44
1:F:354:TYR:CE2	1:F:356:LEU:HB2	2.52	0.44
1:F:425:SER:O	1:F:730:ARG:HA	2.18	0.44
1:I:705:TYR:CD2	1:I:705:TYR:O	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:373:MET:HE1	1:1:659:PRO:HG2	2.00	0.44
1:J:691:ASN:ND2	1:L:351:GLN:HE21	2.15	0.44
1:J:705:TYR:CD2	1:J:705:TYR:O	2.70	0.44
1:K:284:PHE:HE1	1:K:374:ILE:HD13	1.82	0.44
1:K:360:HIS:HA	1:8:442:GLN:HA	1.99	0.44
1:M:400:PHE:CE1	1:2:693:LYS:HE2	2.52	0.44
1:O:466:ALA:HB1	1:O:474:GLN:HG2	1.99	0.44
1:P:436:MET:CE	1:P:471:MET:HG2	2.27	0.44
1:P:705:TYR:CD2	1:P:705:TYR:O	2.70	0.44
1:Q:702:THR:HG22	1:R:700:GLN:HB3	1.98	0.44
1:T:437:ASN:HB2	1:4:355:VAL:CG1	2.47	0.44
1:V:352:LEU:HD21	1:V:400:PHE:HZ	1.80	0.44
1:V:442:GLN:HA	1:5:360:HIS:HA	2.00	0.44
1:W:691:ASN:ND2	1:Y:351:GLN:HE21	2.15	0.44
1:Z:425:SER:C	1:Z:730:ARG:HG2	2.42	0.44
1:1:691:ASN:ND2	1:8:351:GLN:HE21	2.15	0.44
1:2:611:ASP:OD1	1:2:729:THR:HB	2.16	0.44
1:3:354:TYR:CE2	1:3:356:LEU:HB2	2.52	0.44
1:4:425:SER:O	1:4:730:ARG:HA	2.18	0.44
1:6:351:GLN:HE21	1:a:691:ASN:ND2	2.15	0.44
1:6:705:TYR:CD2	1:6:705:TYR:O	2.70	0.44
1:a:705:TYR:CD2	1:a:705:TYR:O	2.70	0.44
1:h:352:LEU:HD21	1:h:400:PHE:HZ	1.80	0.44
1:k:354:TYR:CE2	1:k:356:LEU:HB2	2.52	0.44
1:l:352:LEU:HD21	1:l:400:PHE:HZ	1.80	0.44
1:l:691:ASN:ND2	1:m:351:GLN:HE21	2.15	0.44
1:m:379:TYR:HH	1:m:395:TYR:H	1.61	0.44
1:n:354:TYR:CE2	1:n:356:LEU:HB2	2.52	0.44
1:n:373:MET:HE1	1:z:659:PRO:HG2	2.00	0.44
1:p:659:PRO:HG2	1:u:373:MET:HE1	1.99	0.44
1:r:705:TYR:CD2	1:r:705:TYR:O	2.70	0.44
1:v:611:ASP:OD1	1:v:729:THR:HB	2.16	0.44
1:y:360:HIS:HA	1:7:442:GLN:HA	1.99	0.44
1:A:355:VAL:CG1	1:I:437:ASN:HB2	2.47	0.44
1:A:475:GLY:HA2	1:G:519:ASN:HB3	2.00	0.44
1:B:354:TYR:CE2	1:B:356:LEU:HB2	2.52	0.44
1:C:355:VAL:CG1	1:M:437:ASN:HB2	2.47	0.44
1:E:425:SER:C	1:E:730:ARG:HG2	2.42	0.44
1:E:693:LYS:HE2	1:Q:400:PHE:CE1	2.52	0.44
1:F:705:TYR:CD2	1:F:705:TYR:O	2.70	0.44
1:H:354:TYR:CE2	1:H:356:LEU:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:373:MET:HE1	1:L:659:PRO:HG2	1.99	0.44
1:K:379:TYR:HH	1:K:395:TYR:H	1.60	0.44
1:K:691:ASN:ND2	1:1:351:GLN:HE21	2.15	0.44
1:N:425:SER:O	1:N:730:ARG:HA	2.18	0.44
1:N:705:TYR:O	1:N:705:TYR:CD2	2.70	0.44
1:S:437:ASN:HB2	1:U:355:VAL:CG1	2.47	0.44
1:V:360:HIS:HA	1:X:442:GLN:HA	1.99	0.44
1:Z:284:PHE:HE1	1:Z:374:ILE:HD13	1.81	0.44
1:Z:659:PRO:HG2	1:1:373:MET:HE1	1.99	0.44
1:3:360:HIS:HA	1:j:442:GLN:HA	1.99	0.44
1:4:559:MET:CE	1:4:725:ARG:HA	2.44	0.44
1:b:700:GLN:HB3	1:e:702:THR:HG22	1.99	0.44
1:d:352:LEU:CD1	1:d:400:PHE:HE2	2.26	0.44
1:d:354:TYR:CE2	1:d:356:LEU:HB2	2.52	0.44
1:e:425:SER:C	1:e:730:ARG:HG2	2.42	0.44
1:e:705:TYR:CD2	1:e:705:TYR:O	2.70	0.44
1:f:611:ASP:OD1	1:f:729:THR:HB	2.16	0.44
1:g:442:GLN:HA	1:h:360:HIS:HA	1.99	0.44
1:j:659:PRO:HG2	1:z:373:MET:HE1	1.99	0.44
1:n:691:ASN:ND2	1:o:351:GLN:HE21	2.15	0.44
1:p:354:TYR:CE2	1:p:356:LEU:HB2	2.52	0.44
1:p:373:MET:HE1	1:q:659:PRO:HG2	2.00	0.44
1:q:352:LEU:HD21	1:q:400:PHE:HZ	1.81	0.44
1:q:693:LYS:HE2	1:r:400:PHE:CE1	2.52	0.44
1:r:425:SER:C	1:r:730:ARG:HG2	2.42	0.44
1:s:705:TYR:CD2	1:s:705:TYR:O	2.70	0.44
1:t:400:PHE:CE1	1:v:693:LYS:HE2	2.52	0.44
1:u:425:SER:O	1:u:730:ARG:HA	2.18	0.44
1:y:691:ASN:ND2	1:z:351:GLN:HE21	2.15	0.44
1:y:693:LYS:HE2	1:z:400:PHE:CE1	2.52	0.44
1:z:611:ASP:OD1	1:z:729:THR:HB	2.16	0.44
1:H:425:SER:O	1:H:730:ARG:HA	2.18	0.44
1:H:437:ASN:HB2	1:W:355:VAL:CG1	2.47	0.44
1:I:425:SER:C	1:I:730:ARG:HG2	2.42	0.44
1:J:425:SER:O	1:J:730:ARG:HA	2.18	0.44
1:K:425:SER:O	1:K:730:ARG:HA	2.18	0.44
1:L:705:TYR:CD2	1:L:705:TYR:O	2.70	0.44
1:M:354:TYR:CE2	1:M:356:LEU:HB2	2.52	0.44
1:Q:425:SER:O	1:Q:730:ARG:HA	2.18	0.44
1:R:352:LEU:HD21	1:R:400:PHE:HZ	1.80	0.44
1:R:611:ASP:OD1	1:R:729:THR:HB	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:352:LEU:CD1	1:V:400:PHE:HE2	2.26	0.44
1:X:260:ILE:N	1:X:276:GLY:O	2.32	0.44
1:X:354:TYR:CE2	1:X:356:LEU:HB2	2.52	0.44
1:Z:442:GLN:HA	1:x:360:HIS:HA	2.00	0.44
1:6:425:SER:O	1:6:730:ARG:HA	2.18	0.44
1:c:425:SER:O	1:c:730:ARG:HA	2.18	0.44
1:d:705:TYR:CD2	1:d:705:TYR:O	2.70	0.44
1:g:352:LEU:HD21	1:g:400:PHE:HZ	1.80	0.44
1:g:354:TYR:CE2	1:g:356:LEU:HB2	2.52	0.44
1:i:373:MET:HE1	1:7:659:PRO:HG2	2.00	0.44
1:k:425:SER:O	1:k:730:ARG:HA	2.18	0.44
1:n:425:SER:O	1:n:730:ARG:HA	2.18	0.44
1:o:477:ASN:ND2	1:p:357:GLY:O	2.47	0.44
1:o:705:TYR:CD2	1:o:705:TYR:O	2.70	0.44
1:q:355:VAL:CG1	1:s:437:ASN:HB2	2.47	0.44
1:q:437:ASN:HB2	1:r:355:VAL:CG1	2.47	0.44
1:q:522:PRO:HB2	1:q:524:MET:CE	2.48	0.44
1:s:466:ALA:HB1	1:s:474:GLN:HG2	1.99	0.44
1:t:354:TYR:CE2	1:t:356:LEU:HB2	2.52	0.44
1:w:433:ASP:OD1	1:w:433:ASP:N	2.51	0.44
1:y:477:ASN:ND2	1:z:357:GLY:O	2.47	0.44
1:z:559:MET:CE	1:z:725:ARG:HA	2.44	0.44
1:7:314:ASN:OD1	1:7:315:PHE:N	2.51	0.44
1:B:360:HIS:HA	1:L:442:GLN:HA	1.99	0.44
1:C:702:THR:HG22	1:L:700:GLN:HB3	1.98	0.44
1:D:314:ASN:OD1	1:D:315:PHE:N	2.51	0.44
1:E:355:VAL:CG1	1:F:437:ASN:HB2	2.48	0.44
1:F:360:HIS:HA	1:Q:442:GLN:HA	2.00	0.44
1:G:314:ASN:OD1	1:G:315:PHE:N	2.51	0.44
1:G:425:SER:C	1:G:730:ARG:HG2	2.42	0.44
1:I:466:ALA:HB1	1:I:474:GLN:HG2	1.99	0.44
1:K:351:GLN:HE21	1:8:691:ASN:ND2	2.15	0.44
1:K:693:LYS:HE2	1:1:400:PHE:CE1	2.52	0.44
1:L:288:ARG:HD3	1:L:363:CYS:HB3	2.00	0.44
1:M:425:SER:O	1:M:730:ARG:HA	2.18	0.44
1:R:351:GLN:HE21	1:U:691:ASN:ND2	2.15	0.44
1:S:314:ASN:OD1	1:S:315:PHE:N	2.51	0.44
1:S:425:SER:C	1:S:730:ARG:HG2	2.42	0.44
1:T:425:SER:C	1:T:730:ARG:HG2	2.42	0.44
1:T:705:TYR:CD2	1:T:705:TYR:O	2.70	0.44
1:W:442:GLN:HA	1:Y:360:HIS:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:466:ALA:HB1	1:W:474:GLN:HG2	1.99	0.44
1:2:354:TYR:CE2	1:2:356:LEU:HB2	2.52	0.44
1:3:314:ASN:OD1	1:3:315:PHE:N	2.51	0.44
1:4:475:GLY:HA2	1:f:519:ASN:HB3	2.00	0.44
1:6:442:GLN:HA	1:b:360:HIS:HA	1.99	0.44
1:a:379:TYR:HH	1:a:395:TYR:H	1.61	0.44
1:c:355:VAL:CG1	1:e:437:ASN:HB2	2.48	0.44
1:d:425:SER:O	1:d:730:ARG:HA	2.18	0.44
1:d:475:GLY:HA2	1:e:519:ASN:HB3	1.98	0.44
1:i:425:SER:O	1:i:730:ARG:HA	2.18	0.44
1:i:433:ASP:OD1	1:i:433:ASP:N	2.51	0.44
1:i:700:GLN:HB3	1:z:702:THR:HG22	1.98	0.44
1:k:437:ASN:HB2	1:l:355:VAL:CG1	2.47	0.44
1:l:466:ALA:HB1	1:l:474:GLN:HG2	1.99	0.44
1:p:425:SER:O	1:p:730:ARG:HA	2.18	0.44
1:r:314:ASN:OD1	1:r:315:PHE:N	2.51	0.44
1:s:425:SER:C	1:s:730:ARG:HG2	2.42	0.44
1:t:425:SER:O	1:t:730:ARG:HA	2.18	0.44
1:t:693:LYS:HE2	1:u:400:PHE:CE1	2.52	0.44
1:v:354:TYR:CE2	1:v:356:LEU:HB2	2.52	0.44
1:x:314:ASN:OD1	1:x:315:PHE:N	2.51	0.44
1:y:425:SER:O	1:y:730:ARG:HA	2.18	0.44
1:8:314:ASN:OD1	1:8:315:PHE:N	2.51	0.44
1:B:425:SER:O	1:B:730:ARG:HA	2.18	0.44
1:B:659:PRO:HG2	1:C:373:MET:HE1	1.99	0.44
1:F:314:ASN:OD1	1:F:315:PHE:N	2.51	0.44
1:F:352:LEU:CD1	1:F:400:PHE:HE2	2.26	0.44
1:G:437:ASN:HB2	1:I:355:VAL:CG1	2.47	0.44
1:G:693:LYS:HE2	1:I:400:PHE:CE1	2.52	0.44
1:H:288:ARG:HD3	1:H:363:CYS:HB3	2.00	0.44
1:H:314:ASN:OD1	1:H:315:PHE:N	2.51	0.44
1:H:400:PHE:CE1	1:Y:693:LYS:HE2	2.52	0.44
1:I:260:ILE:N	1:I:276:GLY:O	2.31	0.44
1:J:288:ARG:HD3	1:J:363:CYS:HB3	2.00	0.44
1:L:260:ILE:N	1:L:276:GLY:O	2.32	0.44
1:O:477:ASN:ND2	1:g:357:GLY:O	2.47	0.44
1:O:705:TYR:CD2	1:O:705:TYR:O	2.70	0.44
1:P:314:ASN:OD1	1:P:315:PHE:N	2.51	0.44
1:R:693:LYS:HE2	1:S:400:PHE:CE1	2.52	0.44
1:T:314:ASN:OD1	1:T:315:PHE:N	2.51	0.44
1:Y:425:SER:O	1:Y:730:ARG:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:519:ASN:HB3	1:w:475:GLY:HA2	2.00	0.44
1:1:559:MET:CE	1:1:725:ARG:HA	2.44	0.44
1:3:355:VAL:CG1	1:j:437:ASN:HB2	2.47	0.44
1:5:425:SER:O	1:5:730:ARG:HA	2.18	0.44
1:5:705:TYR:CD2	1:5:705:TYR:O	2.70	0.44
1:a:314:ASN:OD1	1:a:315:PHE:N	2.51	0.44
1:b:314:ASN:OD1	1:b:315:PHE:N	2.51	0.44
1:c:429:SER:N	1:c:734:ARG:O	2.43	0.44
1:d:442:GLN:HA	1:e:360:HIS:HA	2.00	0.44
1:f:352:LEU:HD21	1:f:400:PHE:HZ	1.80	0.44
1:g:522:PRO:HB2	1:g:524:MET:CE	2.47	0.44
1:g:559:MET:CE	1:g:725:ARG:HA	2.44	0.44
1:i:437:ASN:HB2	1:j:355:VAL:CG1	2.48	0.44
1:k:288:ARG:HD3	1:k:363:CYS:HB3	2.00	0.44
1:k:314:ASN:OD1	1:k:315:PHE:N	2.51	0.44
1:l:477:ASN:ND2	1:m:357:GLY:O	2.47	0.44
1:m:425:SER:O	1:m:730:ARG:HA	2.18	0.44
1:n:288:ARG:HD3	1:n:363:CYS:HB3	2.00	0.44
1:o:260:ILE:N	1:o:276:GLY:O	2.32	0.44
1:o:425:SER:C	1:o:730:ARG:HG2	2.42	0.44
1:q:314:ASN:OD1	1:q:315:PHE:N	2.51	0.44
1:q:425:SER:O	1:q:730:ARG:HA	2.18	0.44
1:w:288:ARG:HD3	1:w:363:CYS:HB3	2.00	0.44
1:w:425:SER:O	1:w:730:ARG:HA	2.18	0.44
1:y:288:ARG:HD3	1:y:363:CYS:HB3	2.00	0.44
1:7:433:ASP:N	1:7:433:ASP:OD1	2.51	0.44
1:8:517:LEU:HD13	1:8:517:LEU:HA	1.87	0.44
1:A:284:PHE:HE1	1:A:374:ILE:HD13	1.81	0.43
1:A:314:ASN:OD1	1:A:315:PHE:N	2.51	0.43
1:A:360:HIS:HA	1:I:442:GLN:HA	1.99	0.43
1:A:425:SER:O	1:A:730:ARG:HA	2.18	0.43
1:B:357:GLY:O	1:L:477:ASN:ND2	2.47	0.43
1:B:691:ASN:ND2	1:J:351:GLN:HE21	2.15	0.43
1:I:314:ASN:OD1	1:I:315:PHE:N	2.51	0.43
1:I:433:ASP:N	1:I:433:ASP:OD1	2.51	0.43
1:J:284:PHE:HE1	1:J:374:ILE:HD13	1.82	0.43
1:J:314:ASN:OD1	1:J:315:PHE:N	2.51	0.43
1:K:288:ARG:HD3	1:K:363:CYS:HB3	2.00	0.43
1:L:425:SER:C	1:L:730:ARG:HG2	2.42	0.43
1:N:442:GLN:HA	1:P:360:HIS:HA	1.99	0.43
1:O:314:ASN:OD1	1:O:315:PHE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:400:PHE:CE1	1:h:693:LYS:HE2	2.52	0.43
1:O:425:SER:O	1:O:730:ARG:HA	2.18	0.43
1:P:425:SER:O	1:P:730:ARG:HA	2.18	0.43
1:Q:314:ASN:OD1	1:Q:315:PHE:N	2.51	0.43
1:Q:429:SER:N	1:Q:734:ARG:O	2.43	0.43
1:R:425:SER:O	1:R:730:ARG:HA	2.18	0.43
1:R:519:ASN:HB3	1:U:475:GLY:HA2	2.01	0.43
1:S:705:TYR:O	1:S:705:TYR:CD2	2.70	0.43
1:T:400:PHE:CE1	1:f:693:LYS:HE2	2.52	0.43
1:V:425:SER:O	1:V:730:ARG:HA	2.18	0.43
1:V:519:ASN:HB3	1:X:475:GLY:HA2	2.00	0.43
1:W:425:SER:O	1:W:730:ARG:HA	2.18	0.43
1:X:352:LEU:HD21	1:X:400:PHE:HZ	1.80	0.43
1:X:425:SER:O	1:X:730:ARG:HA	2.18	0.43
1:Y:705:TYR:CD2	1:Y:705:TYR:O	2.70	0.43
1:Z:314:ASN:OD1	1:Z:315:PHE:N	2.51	0.43
1:Z:437:ASN:HB2	1:x:355:VAL:CG1	2.48	0.43
1:1:466:ALA:HB1	1:1:474:GLN:HG2	1.99	0.43
1:3:288:ARG:HD3	1:3:363:CYS:HB3	2.00	0.43
1:4:691:ASN:ND2	1:f:351:GLN:HE21	2.15	0.43
1:5:314:ASN:OD1	1:5:315:PHE:N	2.51	0.43
1:a:351:GLN:HE21	1:b:691:ASN:ND2	2.15	0.43
1:a:425:SER:O	1:a:730:ARG:HA	2.18	0.43
1:a:522:PRO:HB2	1:a:524:MET:CE	2.47	0.43
1:b:354:TYR:CE2	1:b:356:LEU:HB2	2.52	0.43
1:b:425:SER:O	1:b:730:ARG:HA	2.18	0.43
1:c:288:ARG:HD3	1:c:363:CYS:HB3	2.00	0.43
1:c:702:THR:HG22	1:f:700:GLN:HB3	1.99	0.43
1:d:314:ASN:OD1	1:d:315:PHE:N	2.51	0.43
1:f:425:SER:O	1:f:730:ARG:HA	2.18	0.43
1:g:475:GLY:HA2	1:h:519:ASN:HB3	2.00	0.43
1:k:400:PHE:CE1	1:m:693:LYS:HE2	2.52	0.43
1:l:425:SER:O	1:l:730:ARG:HA	2.18	0.43
1:l:442:GLN:HA	1:m:360:HIS:HA	1.99	0.43
1:m:705:TYR:CD2	1:m:705:TYR:O	2.70	0.43
1:n:314:ASN:OD1	1:n:315:PHE:N	2.51	0.43
1:o:288:ARG:HD3	1:o:363:CYS:HB3	2.00	0.43
1:o:442:GLN:HA	1:p:360:HIS:HA	1.99	0.43
1:o:700:GLN:HB3	1:u:702:THR:HG22	1.98	0.43
1:q:284:PHE:HE1	1:q:374:ILE:HD13	1.81	0.43
1:q:288:ARG:HD3	1:q:363:CYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:288:ARG:HD3	1:r:363:CYS:HB3	2.00	0.43
1:r:693:LYS:HE2	1:s:400:PHE:CE1	2.52	0.43
1:s:314:ASN:OD1	1:s:315:PHE:N	2.51	0.43
1:v:314:ASN:OD1	1:v:315:PHE:N	2.51	0.43
1:x:288:ARG:HD3	1:x:363:CYS:HB3	2.00	0.43
1:y:351:GLN:HE21	1:7:691:ASN:ND2	2.15	0.43
1:z:466:ALA:HB1	1:z:474:GLN:HG2	1.99	0.43
1:8:433:ASP:OD1	1:8:433:ASP:N	2.51	0.43
1:A:437:ASN:HB2	1:G:355:VAL:CG1	2.47	0.43
1:B:379:TYR:HH	1:B:395:TYR:H	1.59	0.43
1:D:425:SER:O	1:D:730:ARG:HA	2.18	0.43
1:D:433:ASP:N	1:D:433:ASP:OD1	2.51	0.43
1:D:519:ASN:HB3	1:P:475:GLY:HA2	2.00	0.43
1:D:659:PRO:HG2	1:E:373:MET:HE1	1.99	0.43
1:F:429:SER:N	1:F:734:ARG:O	2.43	0.43
1:G:288:ARG:HD3	1:G:363:CYS:HB3	2.00	0.43
1:H:360:HIS:HA	1:Y:442:GLN:HA	1.99	0.43
1:K:477:ASN:ND2	1:1:357:GLY:O	2.47	0.43
1:L:314:ASN:OD1	1:L:315:PHE:N	2.51	0.43
1:M:433:ASP:OD1	1:M:433:ASP:N	2.51	0.43
1:N:314:ASN:OD1	1:N:315:PHE:N	2.51	0.43
1:O:288:ARG:HD3	1:O:363:CYS:HB3	2.00	0.43
1:P:354:TYR:CE2	1:P:356:LEU:HB2	2.52	0.43
1:T:351:GLN:HE21	1:f:691:ASN:ND2	2.15	0.43
1:T:425:SER:O	1:T:730:ARG:HA	2.18	0.43
1:W:288:ARG:HD3	1:W:363:CYS:HB3	2.00	0.43
1:W:477:ASN:ND2	1:Y:357:GLY:O	2.47	0.43
1:X:522:PRO:HB2	1:X:524:MET:CE	2.48	0.43
1:1:437:ASN:HB2	1:8:355:VAL:CG1	2.47	0.43
1:2:314:ASN:OD1	1:2:315:PHE:N	2.51	0.43
1:3:433:ASP:OD1	1:3:433:ASP:N	2.51	0.43
1:5:288:ARG:HD3	1:5:363:CYS:HB3	2.00	0.43
1:6:437:ASN:HB2	1:b:355:VAL:CG1	2.47	0.43
1:6:522:PRO:HB2	1:6:524:MET:CE	2.47	0.43
1:a:519:ASN:HB3	1:b:475:GLY:HA2	2.00	0.43
1:b:436:MET:CE	1:b:471:MET:HG2	2.27	0.43
1:c:314:ASN:OD1	1:c:315:PHE:N	2.51	0.43
1:d:288:ARG:HD3	1:d:363:CYS:HB3	2.00	0.43
1:g:425:SER:O	1:g:730:ARG:HA	2.18	0.43
1:h:425:SER:O	1:h:730:ARG:HA	2.18	0.43
1:j:314:ASN:OD1	1:j:315:PHE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:288:ARG:HD3	1:l:363:CYS:HB3	2.00	0.43
1:n:351:GLN:HE21	1:p:691:ASN:ND2	2.15	0.43
1:o:354:TYR:CE2	1:o:356:LEU:HB2	2.52	0.43
1:q:477:ASN:ND2	1:r:357:GLY:O	2.48	0.43
1:r:437:ASN:HB2	1:s:355:VAL:CG1	2.48	0.43
1:s:433:ASP:OD1	1:s:433:ASP:N	2.51	0.43
1:t:433:ASP:OD1	1:t:433:ASP:N	2.51	0.43
1:x:466:ALA:HB1	1:x:474:GLN:HG2	1.99	0.43
1:A:288:ARG:HD3	1:A:363:CYS:HB3	2.00	0.43
1:A:429:SER:N	1:A:734:ARG:O	2.43	0.43
1:C:659:PRO:HG2	1:D:373:MET:HE1	1.99	0.43
1:D:351:GLN:HE21	1:P:691:ASN:ND2	2.15	0.43
1:F:288:ARG:HD3	1:F:363:CYS:HB3	2.00	0.43
1:I:288:ARG:HD3	1:I:363:CYS:HB3	2.00	0.43
1:J:475:GLY:HA2	1:L:519:ASN:HB3	2.00	0.43
1:L:354:TYR:CE2	1:L:356:LEU:HB2	2.52	0.43
1:L:358:SER:HB2	1:L:360:HIS:NE2	2.34	0.43
1:N:437:ASN:HB2	1:P:355:VAL:CG1	2.47	0.43
1:N:522:PRO:HB2	1:N:524:MET:CE	2.48	0.43
1:O:373:MET:HE1	1:P:659:PRO:HG2	2.00	0.43
1:R:691:ASN:ND2	1:S:351:GLN:HE21	2.15	0.43
1:S:425:SER:O	1:S:730:ARG:HA	2.18	0.43
1:T:352:LEU:HD21	1:T:400:PHE:HZ	1.80	0.43
1:V:433:ASP:OD1	1:V:433:ASP:N	2.51	0.43
1:V:693:LYS:HE2	1:5:400:PHE:CE1	2.52	0.43
1:W:314:ASN:OD1	1:W:315:PHE:N	2.51	0.43
1:W:437:ASN:HB2	1:Y:355:VAL:CG1	2.47	0.43
1:X:357:GLY:O	1:5:477:ASN:ND2	2.47	0.43
1:1:425:SER:O	1:1:730:ARG:HA	2.18	0.43
1:1:475:GLY:HA2	1:8:519:ASN:HB3	2.00	0.43
1:1:693:LYS:HE2	1:8:400:PHE:CE1	2.52	0.43
1:4:288:ARG:HD3	1:4:363:CYS:HB3	2.00	0.43
1:5:355:VAL:H	1:5:646:GLN:HE22	1.66	0.43
1:6:314:ASN:OD1	1:6:315:PHE:N	2.51	0.43
1:6:354:TYR:CE2	1:6:356:LEU:HB2	2.52	0.43
1:a:433:ASP:N	1:a:433:ASP:OD1	2.51	0.43
1:d:735:ASN:ND2	1:e:395:TYR:OH	2.50	0.43
1:e:314:ASN:OD1	1:e:315:PHE:N	2.51	0.43
1:h:433:ASP:OD1	1:h:433:ASP:N	2.51	0.43
1:i:288:ARG:HD3	1:i:363:CYS:HB3	2.00	0.43
1:i:475:GLY:HA2	1:j:519:ASN:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:360:HIS:HA	1:m:442:GLN:HA	1.99	0.43
1:k:433:ASP:OD1	1:k:433:ASP:N	2.51	0.43
1:n:284:PHE:HE1	1:n:374:ILE:HD13	1.82	0.43
1:n:519:ASN:HB3	1:p:475:GLY:HA2	2.00	0.43
1:o:314:ASN:OD1	1:o:315:PHE:N	2.51	0.43
1:q:475:GLY:HA2	1:r:519:ASN:HB3	2.00	0.43
1:x:433:ASP:N	1:x:433:ASP:OD1	2.51	0.43
1:y:260:ILE:N	1:y:276:GLY:O	2.32	0.43
1:y:475:GLY:HA2	1:z:519:ASN:HB3	2.00	0.43
1:z:475:GLY:HA2	1:7:519:ASN:HB3	2.00	0.43
1:z:693:LYS:HE2	1:7:400:PHE:CE1	2.52	0.43
1:D:522:PRO:HB2	1:D:524:MET:CE	2.47	0.43
1:E:288:ARG:HD3	1:E:363:CYS:HB3	2.00	0.43
1:E:314:ASN:OD1	1:E:315:PHE:N	2.51	0.43
1:F:659:PRO:HG2	1:R:373:MET:HE1	1.99	0.43
1:M:288:ARG:HD3	1:M:363:CYS:HB3	2.00	0.43
1:N:707:LYS:HE2	1:g:387:GLN:OE1	2.19	0.43
1:O:355:VAL:H	1:O:646:GLN:HE22	1.67	0.43
1:P:358:SER:HB2	1:P:360:HIS:NE2	2.34	0.43
1:Q:288:ARG:HD3	1:Q:363:CYS:HB3	2.00	0.43
1:S:442:GLN:HA	1:U:360:HIS:HA	1.99	0.43
1:T:387:GLN:OE1	1:c:707:LYS:HE2	2.19	0.43
1:U:288:ARG:HD3	1:U:363:CYS:HB3	2.00	0.43
1:V:659:PRO:HG2	1:W:373:MET:HE1	1.99	0.43
1:X:373:MET:HE1	1:Y:659:PRO:HG2	2.00	0.43
1:1:433:ASP:N	1:1:433:ASP:OD1	2.51	0.43
1:3:425:SER:O	1:3:730:ARG:HA	2.18	0.43
1:3:442:GLN:HA	1:i:360:HIS:HA	2.00	0.43
1:3:466:ALA:HB1	1:3:474:GLN:HG2	1.99	0.43
1:4:437:ASN:HB2	1:f:355:VAL:CG1	2.47	0.43
1:5:373:MET:HE1	1:b:659:PRO:HG2	2.00	0.43
1:c:433:ASP:OD1	1:c:433:ASP:N	2.51	0.43
1:c:442:GLN:HA	1:d:360:HIS:HA	2.00	0.43
1:e:288:ARG:HD3	1:e:363:CYS:HB3	2.00	0.43
1:h:387:GLN:OE1	1:l:707:LYS:HE2	2.18	0.43
1:h:659:PRO:HG2	1:l:373:MET:HE1	1.99	0.43
1:k:475:GLY:HA2	1:l:519:ASN:HB3	2.00	0.43
1:l:314:ASN:OD1	1:l:315:PHE:N	2.51	0.43
1:l:437:ASN:HB2	1:m:355:VAL:CG1	2.47	0.43
1:n:433:ASP:OD1	1:n:433:ASP:N	2.51	0.43
1:o:358:SER:HB2	1:o:360:HIS:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:387:GLN:OE1	1:u:707:LYS:HE2	2.19	0.43
1:p:517:LEU:HD13	1:p:517:LEU:HA	1.87	0.43
1:q:429:SER:N	1:q:734:ARG:O	2.43	0.43
1:s:260:ILE:N	1:s:276:GLY:O	2.32	0.43
1:s:288:ARG:HD3	1:s:363:CYS:HB3	2.00	0.43
1:t:288:ARG:HD3	1:t:363:CYS:HB3	2.00	0.43
1:u:475:GLY:HA2	1:v:519:ASN:HB3	2.01	0.43
1:w:355:VAL:CG1	1:x:437:ASN:HB2	2.48	0.43
1:w:373:MET:HE1	1:8:659:PRO:HG2	2.00	0.43
1:z:437:ASN:HB2	1:7:355:VAL:CG1	2.47	0.43
1:A:477:ASN:ND2	1:G:357:GLY:O	2.47	0.43
1:B:337:ASN:ND2	1:B:340:SER:OG	2.52	0.43
1:B:387:GLN:OE1	1:C:707:LYS:HE2	2.19	0.43
1:B:475:GLY:HA2	1:J:519:ASN:HB3	2.00	0.43
1:B:519:ASN:HB3	1:L:475:GLY:HA2	2.00	0.43
1:C:475:GLY:HA2	1:2:519:ASN:HB3	2.01	0.43
1:D:466:ALA:HB1	1:D:474:GLN:HG2	1.99	0.43
1:G:337:ASN:ND2	1:G:340:SER:OG	2.52	0.43
1:H:337:ASN:ND2	1:H:340:SER:OG	2.52	0.43
1:H:358:SER:HB2	1:H:360:HIS:NE2	2.34	0.43
1:H:433:ASP:OD1	1:H:433:ASP:N	2.51	0.43
1:H:475:GLY:HA2	1:W:519:ASN:HB3	2.00	0.43
1:I:358:SER:HB2	1:I:360:HIS:NE2	2.34	0.43
1:J:433:ASP:N	1:J:433:ASP:OD1	2.51	0.43
1:K:475:GLY:HA2	1:1:519:ASN:HB3	2.00	0.43
1:O:337:ASN:ND2	1:O:340:SER:OG	2.52	0.43
1:O:358:SER:HB2	1:O:360:HIS:NE2	2.34	0.43
1:Q:433:ASP:N	1:Q:433:ASP:OD1	2.51	0.43
1:S:352:LEU:HD21	1:S:400:PHE:HZ	1.80	0.43
1:T:442:GLN:HA	1:4:360:HIS:HA	1.99	0.43
1:U:314:ASN:OD1	1:U:315:PHE:N	2.51	0.43
1:V:314:ASN:OD1	1:V:315:PHE:N	2.51	0.43
1:V:358:SER:HB2	1:V:360:HIS:NE2	2.34	0.43
1:V:387:GLN:OE1	1:W:707:LYS:HE2	2.18	0.43
1:X:314:ASN:OD1	1:X:315:PHE:N	2.51	0.43
1:X:387:GLN:OE1	1:6:707:LYS:HE2	2.19	0.43
1:Z:355:VAL:CG1	1:w:437:ASN:HB2	2.49	0.43
1:1:702:THR:HG22	1:w:700:GLN:HB3	1.98	0.43
1:2:337:ASN:ND2	1:2:340:SER:OG	2.52	0.43
1:2:358:SER:HB2	1:2:360:HIS:NE2	2.34	0.43
1:2:425:SER:O	1:2:730:ARG:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:437:ASN:HB2	1:i:355:VAL:CG1	2.48	0.43
1:5:337:ASN:ND2	1:5:340:SER:OG	2.52	0.43
1:6:352:LEU:HD21	1:6:400:PHE:HZ	1.80	0.43
1:6:477:ASN:ND2	1:b:357:GLY:O	2.47	0.43
1:b:358:SER:HB2	1:b:360:HIS:NE2	2.34	0.43
1:b:707:LYS:HE2	1:c:387:GLN:OE1	2.19	0.43
1:g:373:MET:HE1	1:m:659:PRO:HG2	2.00	0.43
1:h:288:ARG:HD3	1:h:363:CYS:HB3	2.00	0.43
1:h:337:ASN:ND2	1:h:340:SER:OG	2.52	0.43
1:h:425:SER:C	1:h:730:ARG:HG2	2.42	0.43
1:m:314:ASN:OD1	1:m:315:PHE:N	2.51	0.43
1:n:352:LEU:CD1	1:n:400:PHE:HE2	2.26	0.43
1:o:475:GLY:HA2	1:p:519:ASN:HB3	2.00	0.43
1:p:337:ASN:ND2	1:p:340:SER:OG	2.52	0.43
1:q:352:LEU:CD1	1:q:400:PHE:HE2	2.26	0.43
1:s:358:SER:HB2	1:s:360:HIS:NE2	2.34	0.43
1:x:425:SER:O	1:x:730:ARG:HA	2.18	0.43
1:y:379:TYR:HH	1:y:395:TYR:H	1.61	0.43
1:z:337:ASN:ND2	1:z:340:SER:OG	2.52	0.43
1:z:425:SER:O	1:z:730:ARG:HA	2.18	0.43
1:7:288:ARG:HD3	1:7:363:CYS:HB3	2.00	0.43
1:7:425:SER:O	1:7:730:ARG:HA	2.18	0.43
1:8:288:ARG:HD3	1:8:363:CYS:HB3	2.00	0.43
1:8:425:SER:O	1:8:730:ARG:HA	2.18	0.43
1:A:352:LEU:CD1	1:A:400:PHE:HE2	2.26	0.43
1:A:358:SER:HB2	1:A:360:HIS:NE2	2.34	0.43
1:A:387:GLN:OE1	1:B:707:LYS:HE2	2.19	0.43
1:B:235:LEU:HB2	1:B:238:ARG:HG2	2.01	0.43
1:B:433:ASP:N	1:B:433:ASP:OD1	2.51	0.43
1:C:716:ASN:CG	1:C:717:THR:H	2.27	0.43
1:G:352:LEU:HD21	1:G:400:PHE:HZ	1.80	0.43
1:G:358:SER:HB2	1:G:360:HIS:NE2	2.34	0.43
1:G:433:ASP:N	1:G:433:ASP:OD1	2.51	0.43
1:H:306:TRP:HZ2	1:H:692:SER:HB2	1.84	0.43
1:I:707:LYS:HE2	1:J:387:GLN:OE1	2.18	0.43
1:N:352:LEU:HD21	1:N:400:PHE:HZ	1.81	0.43
1:N:354:TYR:CE2	1:N:356:LEU:HB2	2.52	0.43
1:N:477:ASN:ND2	1:P:357:GLY:O	2.47	0.43
1:R:337:ASN:ND2	1:R:340:SER:OG	2.52	0.43
1:R:355:VAL:CG1	1:U:437:ASN:HB2	2.48	0.43
1:T:288:ARG:HD3	1:T:363:CYS:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:337:ASN:ND2	1:U:340:SER:OG	2.52	0.43
1:V:288:ARG:HD3	1:V:363:CYS:HB3	2.00	0.43
1:V:337:ASN:ND2	1:V:340:SER:OG	2.52	0.43
1:V:517:LEU:HD13	1:V:517:LEU:HA	1.87	0.43
1:X:288:ARG:HD3	1:X:363:CYS:HB3	2.00	0.43
1:Y:314:ASN:OD1	1:Y:315:PHE:N	2.51	0.43
1:Y:358:SER:HB2	1:Y:360:HIS:NE2	2.34	0.43
1:1:337:ASN:ND2	1:1:340:SER:OG	2.52	0.43
1:2:429:SER:N	1:2:734:ARG:O	2.43	0.43
1:4:314:ASN:OD1	1:4:315:PHE:N	2.51	0.43
1:4:337:ASN:ND2	1:4:340:SER:OG	2.52	0.43
1:5:433:ASP:OD1	1:5:433:ASP:N	2.51	0.43
1:a:659:PRO:HG2	1:e:373:MET:HE1	1.99	0.43
1:g:314:ASN:OD1	1:g:315:PHE:N	2.51	0.43
1:h:314:ASN:OD1	1:h:315:PHE:N	2.51	0.43
1:h:358:SER:HB2	1:h:360:HIS:NE2	2.34	0.43
1:k:306:TRP:HZ2	1:k:692:SER:HB2	1.84	0.43
1:k:337:ASN:ND2	1:k:340:SER:OG	2.52	0.43
1:k:358:SER:HB2	1:k:360:HIS:NE2	2.34	0.43
1:k:519:ASN:HB3	1:m:475:GLY:HA2	2.00	0.43
1:m:358:SER:HB2	1:m:360:HIS:NE2	2.34	0.43
1:n:475:GLY:HA2	1:o:519:ASN:HB3	2.00	0.43
1:n:707:LYS:HE2	1:z:387:GLN:OE1	2.19	0.43
1:p:433:ASP:OD1	1:p:433:ASP:N	2.51	0.43
1:q:235:LEU:HB2	1:q:238:ARG:HG2	2.01	0.43
1:q:358:SER:HB2	1:q:360:HIS:NE2	2.34	0.43
1:q:360:HIS:HA	1:s:442:GLN:HA	1.99	0.43
1:r:235:LEU:HB2	1:r:238:ARG:HG2	2.01	0.43
1:r:337:ASN:ND2	1:r:340:SER:OG	2.52	0.43
1:r:358:SER:HB2	1:r:360:HIS:NE2	2.34	0.43
1:r:433:ASP:N	1:r:433:ASP:OD1	2.51	0.43
1:u:235:LEU:HB2	1:u:238:ARG:HG2	2.01	0.43
1:u:716:ASN:CG	1:u:717:THR:H	2.27	0.43
1:v:337:ASN:ND2	1:v:340:SER:OG	2.52	0.43
1:v:425:SER:O	1:v:730:ARG:HA	2.18	0.43
1:v:522:PRO:HB2	1:v:524:MET:CE	2.47	0.43
1:y:354:TYR:CE2	1:y:356:LEU:HB2	2.52	0.43
1:y:442:GLN:HA	1:z:360:HIS:HA	1.99	0.43
1:z:433:ASP:N	1:z:433:ASP:OD1	2.51	0.43
1:7:235:LEU:HB2	1:7:238:ARG:HG2	2.01	0.43
1:7:358:SER:HB2	1:7:360:HIS:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:517:LEU:HD13	1:7:517:LEU:HA	1.87	0.43
1:8:306:TRP:HZ2	1:8:692:SER:HB2	1.84	0.43
1:8:358:SER:HB2	1:8:360:HIS:NE2	2.34	0.43
1:8:522:PRO:HB2	1:8:524:MET:CE	2.47	0.43
1:A:235:LEU:HB2	1:A:238:ARG:HG2	2.01	0.43
1:A:716:ASN:CG	1:A:717:THR:H	2.27	0.43
1:C:235:LEU:HB2	1:C:238:ARG:HG2	2.01	0.43
1:C:337:ASN:ND2	1:C:340:SER:OG	2.52	0.43
1:D:475:GLY:HA2	1:N:519:ASN:HB3	2.00	0.43
1:F:519:ASN:HB3	1:Q:475:GLY:HA2	2.01	0.43
1:G:235:LEU:HB2	1:G:238:ARG:HG2	2.01	0.43
1:H:519:ASN:HB3	1:Y:475:GLY:HA2	2.00	0.43
1:J:337:ASN:ND2	1:J:340:SER:OG	2.52	0.43
1:J:707:LYS:HE2	1:1:387:GLN:OE1	2.19	0.43
1:K:354:TYR:CE2	1:K:356:LEU:HB2	2.52	0.43
1:K:716:ASN:CG	1:K:717:THR:H	2.27	0.43
1:O:235:LEU:HB2	1:O:238:ARG:HG2	2.01	0.43
1:S:288:ARG:HD3	1:S:363:CYS:HB3	2.00	0.43
1:V:425:SER:C	1:V:730:ARG:HG2	2.42	0.43
1:W:337:ASN:ND2	1:W:340:SER:OG	2.52	0.43
1:W:358:SER:HB2	1:W:360:HIS:NE2	2.34	0.43
1:Y:337:ASN:ND2	1:Y:340:SER:OG	2.52	0.43
1:1:235:LEU:HB2	1:1:238:ARG:HG2	2.01	0.43
1:2:522:PRO:HB2	1:2:524:MET:CE	2.47	0.43
1:4:442:GLN:HA	1:f:360:HIS:HA	1.99	0.43
1:5:235:LEU:HB2	1:5:238:ARG:HG2	2.01	0.43
1:5:358:SER:HB2	1:5:360:HIS:NE2	2.34	0.43
1:a:373:MET:HE1	1:u:659:PRO:HG2	1.99	0.43
1:a:466:ALA:HB1	1:a:474:GLN:HG2	1.99	0.43
1:c:260:ILE:N	1:c:276:GLY:O	2.32	0.43
1:f:337:ASN:ND2	1:f:340:SER:OG	2.52	0.43
1:g:235:LEU:HB2	1:g:238:ARG:HG2	2.01	0.43
1:g:288:ARG:HD3	1:g:363:CYS:HB3	2.00	0.43
1:g:306:TRP:HZ2	1:g:692:SER:HB2	1.84	0.43
1:j:425:SER:O	1:j:730:ARG:HA	2.18	0.43
1:l:358:SER:HB2	1:l:360:HIS:NE2	2.34	0.43
1:n:337:ASN:ND2	1:n:340:SER:OG	2.52	0.43
1:n:387:GLN:OE1	1:s:707:LYS:HE2	2.18	0.43
1:n:442:GLN:HA	1:o:360:HIS:HA	1.99	0.43
1:p:306:TRP:HZ2	1:p:692:SER:HB2	1.84	0.43
1:q:716:ASN:CG	1:q:717:THR:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:337:ASN:ND2	1:u:340:SER:OG	2.52	0.43
1:v:358:SER:HB2	1:v:360:HIS:NE2	2.34	0.43
1:y:716:ASN:CG	1:y:717:THR:H	2.27	0.43
1:z:235:LEU:HB2	1:z:238:ARG:HG2	2.01	0.43
1:7:306:TRP:HZ2	1:7:692:SER:HB2	1.84	0.43
1:7:522:PRO:HB2	1:7:524:MET:CE	2.47	0.43
1:8:235:LEU:HB2	1:8:238:ARG:HG2	2.01	0.43
1:B:306:TRP:HZ2	1:B:692:SER:HB2	1.84	0.43
1:B:442:GLN:HA	1:J:360:HIS:HA	1.99	0.43
1:C:358:SER:HB2	1:C:360:HIS:NE2	2.34	0.43
1:D:442:GLN:HA	1:N:360:HIS:HA	1.99	0.43
1:J:235:LEU:HB2	1:J:238:ARG:HG2	2.01	0.43
1:J:352:LEU:CD1	1:J:400:PHE:HE2	2.26	0.43
1:J:442:GLN:HA	1:L:360:HIS:HA	1.99	0.43
1:K:442:GLN:HA	1:1:360:HIS:HA	1.99	0.43
1:L:716:ASN:CG	1:L:717:THR:H	2.27	0.43
1:M:716:ASN:CG	1:M:717:THR:H	2.27	0.43
1:O:433:ASP:N	1:O:433:ASP:OD1	2.51	0.43
1:O:716:ASN:CG	1:O:717:THR:H	2.27	0.43
1:P:707:LYS:HE2	1:Q:387:GLN:OE1	2.19	0.43
1:P:716:ASN:CG	1:P:717:THR:H	2.27	0.43
1:T:433:ASP:N	1:T:433:ASP:OD1	2.51	0.43
1:U:358:SER:HB2	1:U:360:HIS:NE2	2.34	0.43
1:X:235:LEU:HB2	1:X:238:ARG:HG2	2.01	0.43
1:Y:288:ARG:HD3	1:Y:363:CYS:HB3	2.00	0.43
1:Y:522:PRO:HB2	1:Y:524:MET:CE	2.47	0.43
1:Z:358:SER:HB2	1:Z:360:HIS:NE2	2.34	0.43
1:3:716:ASN:CG	1:3:717:THR:H	2.27	0.43
1:4:358:SER:HB2	1:4:360:HIS:NE2	2.34	0.43
1:5:716:ASN:CG	1:5:717:THR:H	2.27	0.43
1:6:360:HIS:HA	1:a:442:GLN:HA	1.99	0.43
1:6:519:ASN:HB3	1:a:475:GLY:HA2	2.00	0.43
1:c:519:ASN:HB3	1:e:475:GLY:HA2	2.00	0.43
1:d:373:MET:HE1	1:r:659:PRO:HG2	2.00	0.43
1:d:387:GLN:OE1	1:f:707:LYS:HE2	2.18	0.43
1:f:288:ARG:HD3	1:f:363:CYS:HB3	2.00	0.43
1:g:355:VAL:H	1:g:646:GLN:HE22	1.66	0.43
1:i:306:TRP:HZ2	1:i:692:SER:HB2	1.84	0.43
1:i:352:LEU:HD21	1:i:400:PHE:HZ	1.80	0.43
1:j:358:SER:HB2	1:j:360:HIS:NE2	2.34	0.43
1:j:716:ASN:CG	1:j:717:THR:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:477:ASN:ND2	1:l:357:GLY:O	2.47	0.43
1:l:306:TRP:HZ2	1:l:692:SER:HB2	1.84	0.43
1:l:337:ASN:ND2	1:l:340:SER:OG	2.52	0.43
1:m:288:ARG:HD3	1:m:363:CYS:HB3	2.00	0.43
1:m:337:ASN:ND2	1:m:340:SER:OG	2.52	0.43
1:n:358:SER:HB2	1:n:360:HIS:NE2	2.34	0.43
1:n:659:PRO:HG2	1:s:373:MET:HE1	1.99	0.43
1:o:373:MET:HE1	1:v:659:PRO:HG2	2.00	0.43
1:o:716:ASN:CG	1:o:717:THR:H	2.27	0.43
1:p:235:LEU:HB2	1:p:238:ARG:HG2	2.01	0.43
1:q:528:LYS:HE2	1:q:528:LYS:HB3	1.88	0.43
1:r:716:ASN:CG	1:r:717:THR:H	2.27	0.43
1:t:716:ASN:CG	1:t:717:THR:H	2.27	0.43
1:u:358:SER:HB2	1:u:360:HIS:NE2	2.34	0.43
1:w:306:TRP:HZ2	1:w:692:SER:HB2	1.84	0.43
1:w:360:HIS:HA	1:x:442:GLN:HA	2.00	0.43
1:x:716:ASN:CG	1:x:717:THR:H	2.27	0.43
1:z:358:SER:HB2	1:z:360:HIS:NE2	2.34	0.43
1:8:260:ILE:N	1:8:276:GLY:O	2.32	0.43
1:A:357:GLY:O	1:I:477:ASN:ND2	2.47	0.43
1:D:235:LEU:HB2	1:D:238:ARG:HG2	2.01	0.43
1:D:358:SER:HB2	1:D:360:HIS:NE2	2.34	0.43
1:E:433:ASP:OD1	1:E:433:ASP:N	2.51	0.43
1:G:306:TRP:HZ2	1:G:692:SER:HB2	1.84	0.43
1:G:716:ASN:CG	1:G:717:THR:H	2.27	0.43
1:H:387:GLN:OE1	1:Z:707:LYS:HE2	2.19	0.43
1:H:477:ASN:ND2	1:W:357:GLY:O	2.47	0.43
1:I:522:PRO:HB2	1:I:524:MET:CE	2.47	0.43
1:J:358:SER:HB2	1:J:360:HIS:NE2	2.34	0.43
1:K:260:ILE:N	1:K:276:GLY:O	2.32	0.43
1:K:314:ASN:OD1	1:K:315:PHE:N	2.51	0.43
1:K:358:SER:HB2	1:K:360:HIS:NE2	2.34	0.43
1:K:707:LYS:HE2	1:L:387:GLN:OE1	2.19	0.43
1:L:306:TRP:HZ2	1:L:692:SER:HB2	1.84	0.43
1:M:306:TRP:HZ2	1:M:692:SER:HB2	1.84	0.43
1:R:288:ARG:HD3	1:R:363:CYS:HB3	2.00	0.43
1:R:314:ASN:OD1	1:R:315:PHE:N	2.51	0.43
1:S:433:ASP:OD1	1:S:433:ASP:N	2.51	0.43
1:S:466:ALA:HB1	1:S:474:GLN:HG2	1.99	0.43
1:T:466:ALA:HB1	1:T:474:GLN:HG2	1.99	0.43
1:W:306:TRP:HZ2	1:W:692:SER:HB2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:522:PRO:HB2	1:W:524:MET:CE	2.47	0.43
1:W:693:LYS:HE2	1:Y:400:PHE:CE1	2.52	0.43
1:X:306:TRP:HZ2	1:X:692:SER:HB2	1.84	0.43
1:X:519:ASN:HB3	1:5:475:GLY:HA2	2.00	0.43
1:Z:306:TRP:HZ2	1:Z:692:SER:HB2	1.84	0.43
1:Z:716:ASN:CG	1:Z:717:THR:H	2.27	0.43
1:1:358:SER:HB2	1:1:360:HIS:NE2	2.34	0.43
1:6:306:TRP:HZ2	1:6:692:SER:HB2	1.84	0.43
1:a:235:LEU:HB2	1:a:238:ARG:HG2	2.01	0.43
1:a:358:SER:HB2	1:a:360:HIS:NE2	2.34	0.43
1:c:352:LEU:HD21	1:c:400:PHE:HZ	1.80	0.43
1:d:337:ASN:ND2	1:d:340:SER:OG	2.52	0.43
1:e:433:ASP:N	1:e:433:ASP:OD1	2.51	0.43
1:i:314:ASN:OD1	1:i:315:PHE:N	2.51	0.43
1:l:693:LYS:HE2	1:m:400:PHE:CE1	2.52	0.43
1:n:235:LEU:HB2	1:n:238:ARG:HG2	2.01	0.43
1:n:360:HIS:HA	1:p:442:GLN:HA	2.00	0.43
1:o:306:TRP:HZ2	1:o:692:SER:HB2	1.84	0.43
1:o:387:GLN:OE1	1:y:707:LYS:HE2	2.19	0.43
1:r:352:LEU:HD21	1:r:400:PHE:HZ	1.80	0.43
1:s:425:SER:O	1:s:730:ARG:HA	2.18	0.43
1:t:306:TRP:HZ2	1:t:692:SER:HB2	1.84	0.43
1:w:314:ASN:OD1	1:w:315:PHE:N	2.51	0.43
1:w:352:LEU:HD21	1:w:400:PHE:HZ	1.80	0.43
1:y:358:SER:HB2	1:y:360:HIS:NE2	2.34	0.43
1:y:433:ASP:OD1	1:y:433:ASP:N	2.51	0.43
1:7:716:ASN:CG	1:7:717:THR:H	2.27	0.43
1:8:716:ASN:CG	1:8:717:THR:H	2.27	0.43
1:B:314:ASN:OD1	1:B:315:PHE:N	2.51	0.43
1:B:517:LEU:HD13	1:B:517:LEU:HA	1.87	0.43
1:C:519:ASN:HB3	1:M:475:GLY:HA2	2.00	0.43
1:E:475:GLY:HA2	1:Q:519:ASN:HB3	2.01	0.43
1:F:433:ASP:OD1	1:F:433:ASP:N	2.51	0.43
1:I:337:ASN:ND2	1:I:340:SER:OG	2.52	0.43
1:K:355:VAL:H	1:K:646:GLN:HE22	1.66	0.43
1:K:433:ASP:OD1	1:K:433:ASP:N	2.51	0.43
1:L:425:SER:O	1:L:730:ARG:HA	2.18	0.43
1:M:235:LEU:HB2	1:M:238:ARG:HG2	2.01	0.43
1:N:306:TRP:HZ2	1:N:692:SER:HB2	1.84	0.43
1:N:337:ASN:ND2	1:N:340:SER:OG	2.52	0.43
1:O:475:GLY:HA2	1:g:519:ASN:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:260:ILE:N	1:Q:276:GLY:O	2.32	0.43
1:T:337:ASN:ND2	1:T:340:SER:OG	2.52	0.43
1:Z:425:SER:O	1:Z:730:ARG:HA	2.18	0.43
1:6:288:ARG:HD3	1:6:363:CYS:HB3	2.00	0.43
1:6:337:ASN:ND2	1:6:340:SER:OG	2.52	0.43
1:a:337:ASN:ND2	1:a:340:SER:OG	2.52	0.43
1:b:716:ASN:CG	1:b:717:THR:H	2.27	0.43
1:c:235:LEU:HB2	1:c:238:ARG:HG2	2.01	0.43
1:d:358:SER:HB2	1:d:360:HIS:NE2	2.34	0.43
1:d:433:ASP:N	1:d:433:ASP:OD1	2.51	0.43
1:d:559:MET:SD	1:d:726:PRO:CG	2.95	0.43
1:e:522:PRO:HB2	1:e:524:MET:CE	2.47	0.43
1:f:314:ASN:OD1	1:f:315:PHE:N	2.51	0.43
1:f:387:GLN:OE1	1:h:707:LYS:HE2	2.19	0.43
1:f:716:ASN:CG	1:f:717:THR:H	2.27	0.43
1:g:337:ASN:ND2	1:g:340:SER:OG	2.52	0.43
1:j:306:TRP:HZ2	1:j:692:SER:HB2	1.84	0.43
1:j:337:ASN:ND2	1:j:340:SER:OG	2.52	0.43
1:m:522:PRO:HB2	1:m:524:MET:CE	2.48	0.43
1:o:707:LYS:HE2	1:v:387:GLN:OE1	2.19	0.43
1:p:352:LEU:HD21	1:p:400:PHE:HZ	1.80	0.43
1:p:707:LYS:HE2	1:q:387:GLN:OE1	2.19	0.43
1:q:337:ASN:ND2	1:q:340:SER:OG	2.52	0.43
1:r:306:TRP:HZ2	1:r:692:SER:HB2	1.84	0.43
1:s:522:PRO:HB2	1:s:524:MET:CE	2.47	0.43
1:t:355:VAL:H	1:t:646:GLN:HE22	1.66	0.43
1:v:288:ARG:HD3	1:v:363:CYS:HB3	2.00	0.43
1:v:429:SER:N	1:v:734:ARG:O	2.43	0.43
1:w:358:SER:HB2	1:w:360:HIS:NE2	2.34	0.43
1:y:314:ASN:OD1	1:y:315:PHE:N	2.51	0.43
1:y:355:VAL:H	1:y:646:GLN:HE22	1.66	0.43
1:7:355:VAL:H	1:7:646:GLN:HE22	1.66	0.43
1:C:314:ASN:OD1	1:C:315:PHE:N	2.51	0.42
1:D:337:ASN:ND2	1:D:340:SER:OG	2.52	0.42
1:D:716:ASN:CG	1:D:717:THR:H	2.27	0.42
1:F:337:ASN:ND2	1:F:340:SER:OG	2.52	0.42
1:I:373:MET:HE1	1:J:659:PRO:HG2	1.99	0.42
1:I:425:SER:O	1:I:730:ARG:HA	2.18	0.42
1:J:716:ASN:CG	1:J:717:THR:H	2.27	0.42
1:L:373:MET:HE1	1:2:659:PRO:HG2	2.00	0.42
1:M:314:ASN:OD1	1:M:315:PHE:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:355:VAL:H	1:M:646:GLN:HE22	1.67	0.42
1:O:387:GLN:OE1	1:4:707:LYS:HE2	2.19	0.42
1:Q:235:LEU:HB2	1:Q:238:ARG:HG2	2.01	0.42
1:Q:352:LEU:HD21	1:Q:400:PHE:HZ	1.80	0.42
1:Q:707:LYS:HE2	1:S:387:GLN:OE1	2.19	0.42
1:R:360:HIS:HA	1:U:442:GLN:HA	1.99	0.42
1:R:387:GLN:OE1	1:V:707:LYS:HE2	2.19	0.42
1:R:716:ASN:CG	1:R:717:THR:H	2.27	0.42
1:S:337:ASN:ND2	1:S:340:SER:OG	2.52	0.42
1:S:716:ASN:CG	1:S:717:THR:H	2.27	0.42
1:T:716:ASN:CG	1:T:717:THR:H	2.27	0.42
1:U:707:LYS:HE2	1:5:387:GLN:OE1	2.19	0.42
1:V:306:TRP:HZ2	1:V:692:SER:HB2	1.84	0.42
1:X:337:ASN:ND2	1:X:340:SER:OG	2.52	0.42
1:X:433:ASP:OD1	1:X:433:ASP:N	2.51	0.42
1:Z:337:ASN:ND2	1:Z:340:SER:OG	2.52	0.42
1:Z:387:GLN:OE1	1:1:707:LYS:HE2	2.19	0.42
1:Z:436:MET:CE	1:Z:471:MET:HG2	2.27	0.42
1:Z:528:LYS:HE2	1:Z:528:LYS:HB3	1.88	0.42
1:4:235:LEU:HB2	1:4:238:ARG:HG2	2.01	0.42
1:c:355:VAL:H	1:c:646:GLN:HE22	1.66	0.42
1:d:387:GLN:NE2	1:f:709:ASN:OD1	2.52	0.42
1:e:337:ASN:ND2	1:e:340:SER:OG	2.52	0.42
1:g:563:GLU:OE2	1:g:613:TYR:OH	2.17	0.42
1:h:517:LEU:HD13	1:h:517:LEU:HA	1.87	0.42
1:j:528:LYS:HE2	1:j:528:LYS:HB3	1.88	0.42
1:j:707:LYS:HE2	1:k:387:GLN:OE1	2.19	0.42
1:l:522:PRO:HB2	1:l:524:MET:CE	2.47	0.42
1:n:716:ASN:CG	1:n:717:THR:H	2.27	0.42
1:p:314:ASN:OD1	1:p:315:PHE:N	2.51	0.42
1:q:354:TYR:CE2	1:q:356:LEU:HB2	2.52	0.42
1:s:337:ASN:ND2	1:s:340:SER:OG	2.52	0.42
1:u:314:ASN:OD1	1:u:315:PHE:N	2.51	0.42
1:w:519:ASN:HB3	1:x:475:GLY:HA2	2.01	0.42
1:x:358:SER:HB2	1:x:360:HIS:NE2	2.34	0.42
1:8:355:VAL:H	1:8:646:GLN:HE22	1.67	0.42
1:A:306:TRP:HZ2	1:A:692:SER:HB2	1.84	0.42
1:A:337:ASN:ND2	1:A:340:SER:OG	2.52	0.42
1:A:354:TYR:CE2	1:A:356:LEU:HB2	2.52	0.42
1:A:528:LYS:HE2	1:A:528:LYS:HB3	1.88	0.42
1:B:358:SER:HB2	1:B:360:HIS:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:306:TRP:HZ2	1:D:692:SER:HB2	1.84	0.42
1:E:522:PRO:HB2	1:E:524:MET:CE	2.47	0.42
1:F:355:VAL:CG1	1:Q:437:ASN:HB2	2.48	0.42
1:F:358:SER:HB2	1:F:360:HIS:NE2	2.34	0.42
1:L:707:LYS:HE2	1:2:387:GLN:OE1	2.19	0.42
1:N:288:ARG:HD3	1:N:363:CYS:HB3	2.00	0.42
1:P:337:ASN:ND2	1:P:340:SER:OG	2.52	0.42
1:Q:355:VAL:H	1:Q:646:GLN:HE22	1.66	0.42
1:S:475:GLY:HA2	1:U:519:ASN:HB3	2.00	0.42
1:S:707:LYS:HE2	1:4:387:GLN:OE1	2.19	0.42
1:T:475:GLY:HA2	1:4:519:ASN:HB3	2.00	0.42
1:T:707:LYS:HE2	1:U:387:GLN:OE1	2.19	0.42
1:U:235:LEU:HB2	1:U:238:ARG:HG2	2.01	0.42
1:U:716:ASN:CG	1:U:717:THR:H	2.27	0.42
1:1:716:ASN:CG	1:1:717:THR:H	2.27	0.42
1:2:288:ARG:HD3	1:2:363:CYS:HB3	2.00	0.42
1:3:475:GLY:HA2	1:i:519:ASN:HB3	2.01	0.42
1:4:306:TRP:HZ2	1:4:692:SER:HB2	1.84	0.42
1:a:716:ASN:CG	1:a:717:THR:H	2.27	0.42
1:d:713:PHE:O	1:q:695:TRP:NE1	2.52	0.42
1:e:306:TRP:HZ2	1:e:692:SER:HB2	1.84	0.42
1:h:306:TRP:HZ2	1:h:692:SER:HB2	1.84	0.42
1:i:358:SER:HB2	1:i:360:HIS:NE2	2.34	0.42
1:j:387:GLN:OE1	1:z:707:LYS:HE2	2.19	0.42
1:q:357:GLY:O	1:s:477:ASN:ND2	2.47	0.42
1:t:235:LEU:HB2	1:t:238:ARG:HG2	2.01	0.42
1:7:337:ASN:ND2	1:7:340:SER:OG	2.52	0.42
1:C:306:TRP:HZ2	1:C:692:SER:HB2	1.84	0.42
1:E:306:TRP:HZ2	1:E:692:SER:HB2	1.84	0.42
1:E:337:ASN:ND2	1:E:340:SER:OG	2.52	0.42
1:E:379:TYR:HH	1:E:395:TYR:H	1.56	0.42
1:I:716:ASN:CG	1:I:717:THR:H	2.27	0.42
1:M:358:SER:HB2	1:M:360:HIS:NE2	2.34	0.42
1:P:528:LYS:HE2	1:P:528:LYS:HB3	1.88	0.42
1:Q:358:SER:HB2	1:Q:360:HIS:NE2	2.34	0.42
1:S:358:SER:HB2	1:S:360:HIS:NE2	2.34	0.42
1:U:306:TRP:HZ2	1:U:692:SER:HB2	1.84	0.42
1:X:716:ASN:CG	1:X:717:THR:H	2.27	0.42
1:4:716:ASN:CG	1:4:717:THR:H	2.27	0.42
1:6:475:GLY:HA2	1:b:519:ASN:HB3	2.00	0.42
1:b:235:LEU:HB2	1:b:238:ARG:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:337:ASN:ND2	1:b:340:SER:OG	2.52	0.42
1:c:337:ASN:ND2	1:c:340:SER:OG	2.52	0.42
1:c:358:SER:HB2	1:c:360:HIS:NE2	2.34	0.42
1:e:358:SER:HB2	1:e:360:HIS:NE2	2.34	0.42
1:j:436:MET:CE	1:j:471:MET:HG2	2.27	0.42
1:m:433:ASP:OD1	1:m:433:ASP:N	2.51	0.42
1:n:357:GLY:O	1:p:477:ASN:ND2	2.47	0.42
1:o:425:SER:O	1:o:730:ARG:HA	2.18	0.42
1:p:358:SER:HB2	1:p:360:HIS:NE2	2.34	0.42
1:q:306:TRP:HZ2	1:q:692:SER:HB2	1.84	0.42
1:s:379:TYR:HH	1:s:395:TYR:H	1.58	0.42
1:s:716:ASN:CG	1:s:717:THR:H	2.27	0.42
1:t:314:ASN:OD1	1:t:315:PHE:N	2.51	0.42
1:t:358:SER:HB2	1:t:360:HIS:NE2	2.34	0.42
1:t:475:GLY:HA2	1:u:519:ASN:HB3	2.01	0.42
1:w:337:ASN:ND2	1:w:340:SER:OG	2.52	0.42
1:z:716:ASN:CG	1:z:717:THR:H	2.27	0.42
1:7:260:ILE:N	1:7:276:GLY:O	2.32	0.42
1:8:337:ASN:ND2	1:8:340:SER:OG	2.52	0.42
1:B:352:LEU:HD21	1:B:400:PHE:HZ	1.80	0.42
1:B:477:ASN:ND2	1:J:357:GLY:O	2.47	0.42
1:C:288:ARG:HD3	1:C:363:CYS:HB3	2.00	0.42
1:E:442:GLN:HA	1:Q:360:HIS:HA	2.00	0.42
1:L:337:ASN:ND2	1:L:340:SER:OG	2.52	0.42
1:N:358:SER:HB2	1:N:360:HIS:NE2	2.34	0.42
1:P:235:LEU:HB2	1:P:238:ARG:HG2	2.01	0.42
1:Q:337:ASN:ND2	1:Q:340:SER:OG	2.52	0.42
1:R:306:TRP:HZ2	1:R:692:SER:HB2	1.84	0.42
1:T:358:SER:HB2	1:T:360:HIS:NE2	2.34	0.42
1:U:433:ASP:N	1:U:433:ASP:OD1	2.51	0.42
1:W:433:ASP:N	1:W:433:ASP:OD1	2.51	0.42
1:Y:235:LEU:HB2	1:Y:238:ARG:HG2	2.01	0.42
1:Y:433:ASP:OD1	1:Y:433:ASP:N	2.51	0.42
1:1:288:ARG:HD3	1:1:363:CYS:HB3	2.00	0.42
1:2:716:ASN:CG	1:2:717:THR:H	2.27	0.42
1:3:358:SER:HB2	1:3:360:HIS:NE2	2.34	0.42
1:4:433:ASP:N	1:4:433:ASP:OD1	2.51	0.42
1:a:306:TRP:HZ2	1:a:692:SER:HB2	1.84	0.42
1:c:437:ASN:HB2	1:d:355:VAL:CG1	2.48	0.42
1:g:716:ASN:CG	1:g:717:THR:H	2.27	0.42
1:i:337:ASN:ND2	1:i:340:SER:OG	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:235:LEU:HB2	1:k:238:ARG:HG2	2.01	0.42
1:l:433:ASP:N	1:l:433:ASP:OD1	2.51	0.42
1:l:716:ASN:CG	1:l:717:THR:H	2.27	0.42
1:u:288:ARG:HD3	1:u:363:CYS:HB3	2.00	0.42
1:u:306:TRP:HZ2	1:u:692:SER:HB2	1.84	0.42
1:E:358:SER:HB2	1:E:360:HIS:NE2	2.34	0.42
1:F:352:LEU:HD21	1:F:400:PHE:HZ	1.81	0.42
1:F:707:LYS:HE2	1:G:387:GLN:OE1	2.19	0.42
1:H:235:LEU:HB2	1:H:238:ARG:HG2	2.01	0.42
1:J:429:SER:HB3	1:J:733:THR:HB	2.02	0.42
1:K:337:ASN:ND2	1:K:340:SER:OG	2.52	0.42
1:Q:716:ASN:CG	1:Q:717:THR:H	2.27	0.42
1:W:235:LEU:HB2	1:W:238:ARG:HG2	2.01	0.42
1:W:716:ASN:CG	1:W:717:THR:H	2.27	0.42
1:X:707:LYS:HE2	1:Y:387:GLN:OE1	2.19	0.42
1:Z:429:SER:HB3	1:Z:733:THR:HB	2.02	0.42
1:Z:475:GLY:HA2	1:x:519:ASN:HB3	2.00	0.42
1:1:314:ASN:OD1	1:1:315:PHE:N	2.51	0.42
1:1:355:VAL:H	1:1:646:GLN:HE22	1.67	0.42
1:2:707:LYS:HE2	1:i:387:GLN:OE1	2.19	0.42
1:3:519:ASN:HB3	1:j:475:GLY:HA2	2.00	0.42
1:6:288:ARG:HD3	1:6:363:CYS:CB	2.50	0.42
1:b:288:ARG:HD3	1:b:363:CYS:HB3	2.00	0.42
1:b:563:GLU:OE2	1:b:613:TYR:OH	2.17	0.42
1:c:716:ASN:CG	1:c:717:THR:H	2.27	0.42
1:h:288:ARG:HD3	1:h:363:CYS:CB	2.50	0.42
1:h:716:ASN:CG	1:h:717:THR:H	2.27	0.42
1:i:442:GLN:HA	1:j:360:HIS:HA	2.00	0.42
1:j:429:SER:HB3	1:j:733:THR:HB	2.02	0.42
1:m:235:LEU:HB2	1:m:238:ARG:HG2	2.01	0.42
1:n:429:SER:HB3	1:n:733:THR:HB	2.02	0.42
1:o:337:ASN:ND2	1:o:340:SER:OG	2.52	0.42
1:v:235:LEU:HB2	1:v:238:ARG:HG2	2.01	0.42
1:y:337:ASN:ND2	1:y:340:SER:OG	2.52	0.42
1:z:260:ILE:N	1:z:276:GLY:O	2.32	0.42
1:z:522:PRO:HB2	1:z:524:MET:CE	2.47	0.42
1:7:352:LEU:CD1	1:7:400:PHE:HE2	2.26	0.42
1:8:288:ARG:HD3	1:8:363:CYS:CB	2.50	0.42
1:8:352:LEU:CD1	1:8:400:PHE:HE2	2.26	0.42
1:K:306:TRP:HZ2	1:K:692:SER:HB2	1.84	0.42
1:L:522:PRO:HB2	1:L:524:MET:CE	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:475:GLY:HA2	1:P:519:ASN:HB3	2.01	0.42
1:O:429:SER:HB3	1:O:733:THR:HB	2.02	0.42
1:O:519:ASN:HB3	1:h:475:GLY:HA2	2.00	0.42
1:O:707:LYS:HE2	1:P:387:GLN:OE1	2.19	0.42
1:R:475:GLY:HA2	1:S:519:ASN:HB3	2.00	0.42
1:S:235:LEU:HB2	1:S:238:ARG:HG2	2.01	0.42
1:S:288:ARG:HD3	1:S:363:CYS:CB	2.50	0.42
1:T:288:ARG:HD3	1:T:363:CYS:CB	2.50	0.42
1:T:519:ASN:HB3	1:f:475:GLY:HA2	2.00	0.42
1:V:288:ARG:HD3	1:V:363:CYS:CB	2.50	0.42
1:X:563:GLU:OE2	1:X:613:TYR:OH	2.17	0.42
1:2:235:LEU:HB2	1:2:238:ARG:HG2	2.01	0.42
1:4:288:ARG:HD3	1:4:363:CYS:CB	2.50	0.42
1:5:288:ARG:HD3	1:5:363:CYS:CB	2.50	0.42
1:5:429:SER:HB3	1:5:733:THR:HB	2.02	0.42
1:d:659:PRO:HG2	1:f:373:MET:HE1	2.00	0.42
1:d:716:ASN:CG	1:d:717:THR:H	2.27	0.42
1:e:288:ARG:HD3	1:e:363:CYS:CB	2.50	0.42
1:f:306:TRP:HZ2	1:f:692:SER:HB2	1.84	0.42
1:f:358:SER:HB2	1:f:360:HIS:NE2	2.34	0.42
1:g:433:ASP:OD1	1:g:433:ASP:N	2.51	0.42
1:i:707:LYS:HE2	1:7:387:GLN:OE1	2.19	0.42
1:i:716:ASN:CG	1:i:717:THR:H	2.27	0.42
1:l:235:LEU:HB2	1:l:238:ARG:HG2	2.01	0.42
1:l:475:GLY:HA2	1:m:519:ASN:HB3	2.01	0.42
1:t:387:GLN:OE1	1:x:707:LYS:HE2	2.19	0.42
1:v:528:LYS:HE2	1:v:528:LYS:HB3	1.88	0.42
1:v:716:ASN:CG	1:v:717:THR:H	2.27	0.42
1:w:352:LEU:CD1	1:w:400:PHE:HE2	2.26	0.42
1:w:716:ASN:CG	1:w:717:THR:H	2.27	0.42
1:z:429:SER:HB3	1:z:733:THR:HB	2.02	0.42
1:7:288:ARG:HD3	1:7:363:CYS:CB	2.50	0.42
1:7:436:MET:CE	1:7:471:MET:HG2	2.27	0.42
1:B:288:ARG:HD3	1:B:363:CYS:HB3	2.00	0.42
1:E:288:ARG:HD3	1:E:363:CYS:CB	2.50	0.42
1:F:716:ASN:CG	1:F:717:THR:H	2.27	0.42
1:I:429:SER:HB3	1:I:733:THR:HB	2.02	0.42
1:M:707:LYS:HE2	1:N:387:GLN:OE1	2.19	0.42
1:N:235:LEU:HB2	1:N:238:ARG:HG2	2.01	0.42
1:N:288:ARG:HD3	1:N:363:CYS:CB	2.50	0.42
1:N:716:ASN:CG	1:N:717:THR:H	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:288:ARG:HD3	1:O:363:CYS:CB	2.50	0.42
1:P:288:ARG:HD3	1:P:363:CYS:CB	2.50	0.42
1:Q:306:TRP:HZ2	1:Q:692:SER:HB2	1.84	0.42
1:R:235:LEU:HB2	1:R:238:ARG:HG2	2.01	0.42
1:R:358:SER:HB2	1:R:360:HIS:NE2	2.34	0.42
1:T:235:LEU:HB2	1:T:238:ARG:HG2	2.01	0.42
1:U:284:PHE:CD2	1:U:315:PHE:HZ	2.38	0.42
1:U:288:ARG:HD3	1:U:363:CYS:CB	2.50	0.42
1:V:475:GLY:HA2	1:5:519:ASN:HB3	2.00	0.42
1:V:716:ASN:CG	1:V:717:THR:H	2.27	0.42
1:X:288:ARG:HD3	1:X:363:CYS:CB	2.50	0.42
1:1:522:PRO:HB2	1:1:524:MET:CE	2.47	0.42
1:3:235:LEU:HB2	1:3:238:ARG:HG2	2.01	0.42
1:4:284:PHE:CD2	1:4:315:PHE:HZ	2.38	0.42
1:5:707:LYS:HE2	1:b:387:GLN:OE1	2.19	0.42
1:6:235:LEU:HB2	1:6:238:ARG:HG2	2.01	0.42
1:6:352:LEU:CD1	1:6:400:PHE:HE2	2.26	0.42
1:6:358:SER:HB2	1:6:360:HIS:NE2	2.34	0.42
1:b:288:ARG:HD3	1:b:363:CYS:CB	2.50	0.42
1:d:352:LEU:HD21	1:d:400:PHE:HZ	1.80	0.42
1:e:284:PHE:CD2	1:e:315:PHE:HZ	2.38	0.42
1:f:235:LEU:HB2	1:f:238:ARG:HG2	2.01	0.42
1:g:288:ARG:HD3	1:g:363:CYS:CB	2.50	0.42
1:k:352:LEU:CD1	1:k:400:PHE:HE2	2.26	0.42
1:q:519:ASN:HB3	1:s:475:GLY:HA2	2.01	0.42
1:s:306:TRP:HZ2	1:s:692:SER:HB2	1.84	0.42
1:t:288:ARG:HD3	1:t:363:CYS:CB	2.50	0.42
1:t:337:ASN:ND2	1:t:340:SER:OG	2.52	0.42
1:w:288:ARG:HD3	1:w:363:CYS:CB	2.50	0.42
1:w:707:LYS:HE2	1:8:387:GLN:OE1	2.19	0.42
1:x:429:SER:HB3	1:x:733:THR:HB	2.02	0.42
1:y:284:PHE:CD2	1:y:315:PHE:HZ	2.38	0.42
1:y:387:GLN:OE1	1:8:707:LYS:HE2	2.19	0.42
1:y:429:SER:HB3	1:y:733:THR:HB	2.02	0.42
1:z:288:ARG:HD3	1:z:363:CYS:HB3	2.00	0.42
1:z:314:ASN:OD1	1:z:315:PHE:N	2.51	0.42
1:z:355:VAL:H	1:z:646:GLN:HE22	1.67	0.42
1:E:284:PHE:CD2	1:E:315:PHE:HZ	2.38	0.42
1:E:352:LEU:HD21	1:E:400:PHE:HZ	1.81	0.42
1:F:522:PRO:HB2	1:F:524:MET:CE	2.47	0.42
1:G:475:GLY:HA2	1:I:519:ASN:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:522:PRO:HB2	1:G:524:MET:CE	2.47	0.42
1:I:306:TRP:HZ2	1:I:692:SER:HB2	1.84	0.42
1:I:352:LEU:HD21	1:I:400:PHE:HZ	1.80	0.42
1:K:235:LEU:HB2	1:K:238:ARG:HG2	2.01	0.42
1:K:284:PHE:CD2	1:K:315:PHE:HZ	2.38	0.42
1:K:429:SER:HB3	1:K:733:THR:HB	2.02	0.42
1:L:246:THR:CG2	1:L:371:VAL:HG22	2.50	0.42
1:M:288:ARG:HD3	1:M:363:CYS:CB	2.50	0.42
1:M:387:GLN:OE1	1:3:707:LYS:HE2	2.19	0.42
1:N:352:LEU:CD1	1:N:400:PHE:HE2	2.26	0.42
1:N:433:ASP:OD1	1:N:433:ASP:N	2.51	0.42
1:P:288:ARG:HD3	1:P:363:CYS:HB3	2.00	0.42
1:R:286:PHE:CE1	1:R:619:TRP:HH2	2.38	0.42
1:S:246:THR:CG2	1:S:371:VAL:HG22	2.50	0.42
1:S:284:PHE:CD2	1:S:315:PHE:HZ	2.38	0.42
1:T:246:THR:CG2	1:T:371:VAL:HG22	2.50	0.42
1:W:475:GLY:HA2	1:Y:519:ASN:HB3	2.01	0.42
1:Z:286:PHE:CE1	1:Z:619:TRP:HH2	2.38	0.42
1:Z:288:ARG:HD3	1:Z:363:CYS:HB3	2.00	0.42
1:3:337:ASN:ND2	1:3:340:SER:OG	2.52	0.42
1:3:387:GLN:OE1	1:m:707:LYS:HE2	2.19	0.42
1:3:429:SER:HB3	1:3:733:THR:HB	2.02	0.42
1:6:716:ASN:CG	1:6:717:THR:H	2.27	0.42
1:a:387:GLN:OE1	1:e:707:LYS:HE2	2.19	0.42
1:b:306:TRP:HZ2	1:b:692:SER:HB2	1.84	0.42
1:b:528:LYS:HE2	1:b:528:LYS:HB3	1.88	0.42
1:c:288:ARG:HD3	1:c:363:CYS:CB	2.50	0.42
1:c:360:HIS:HA	1:e:442:GLN:HA	2.00	0.42
1:d:288:ARG:HD3	1:d:363:CYS:CB	2.50	0.42
1:d:691:ASN:ND2	1:e:351:GLN:HE21	2.17	0.42
1:e:352:LEU:HD21	1:e:400:PHE:HZ	1.80	0.42
1:f:286:PHE:CE1	1:f:619:TRP:HH2	2.38	0.42
1:g:707:LYS:HE2	1:m:387:GLN:OE1	2.19	0.42
1:i:288:ARG:HD3	1:i:363:CYS:CB	2.50	0.42
1:i:352:LEU:CD1	1:i:400:PHE:HE2	2.26	0.42
1:k:355:VAL:H	1:k:646:GLN:HE22	1.66	0.42
1:p:288:ARG:HD3	1:p:363:CYS:HB3	2.00	0.42
1:r:475:GLY:HA2	1:s:519:ASN:HB3	2.01	0.42
1:s:429:SER:HB3	1:s:733:THR:HB	2.02	0.42
1:u:352:LEU:CD1	1:u:400:PHE:HE2	2.26	0.42
1:v:288:ARG:HD3	1:v:363:CYS:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:306:TRP:HZ2	1:v:692:SER:HB2	1.84	0.42
1:x:235:LEU:HB2	1:x:238:ARG:HG2	2.01	0.42
1:x:337:ASN:ND2	1:x:340:SER:OG	2.52	0.42
1:y:235:LEU:HB2	1:y:238:ARG:HG2	2.01	0.42
1:y:306:TRP:HZ2	1:y:692:SER:HB2	1.84	0.42
1:A:519:ASN:HB3	1:I:475:GLY:HA2	2.01	0.42
1:A:707:LYS:HE2	1:E:387:GLN:OE1	2.19	0.42
1:B:288:ARG:HD3	1:B:363:CYS:CB	2.50	0.42
1:C:522:PRO:HD2	1:C:524:MET:HE3	2.02	0.42
1:D:387:GLN:OE1	1:E:707:LYS:HE2	2.19	0.42
1:E:429:SER:HB3	1:E:733:THR:HB	2.02	0.42
1:F:288:ARG:HD3	1:F:363:CYS:CB	2.50	0.42
1:F:387:GLN:OE1	1:R:707:LYS:HE2	2.19	0.42
1:G:707:LYS:HE2	1:W:387:GLN:OE1	2.19	0.42
1:H:355:VAL:H	1:H:646:GLN:HE22	1.66	0.42
1:H:707:LYS:HE2	1:I:387:GLN:OE1	2.19	0.42
1:I:235:LEU:HB2	1:I:238:ARG:HG2	2.01	0.42
1:I:286:PHE:CE1	1:I:619:TRP:HH2	2.38	0.42
1:I:355:VAL:H	1:I:646:GLN:HE22	1.67	0.42
1:I:379:TYR:HH	1:I:395:TYR:H	1.59	0.42
1:K:357:GLY:O	1:8:477:ASN:ND2	2.47	0.42
1:K:387:GLN:OE1	1:7:707:LYS:HE2	2.19	0.42
1:M:337:ASN:ND2	1:M:340:SER:OG	2.52	0.42
1:N:294:SER:CB	1:g:399:TYR:CZ	2.86	0.42
1:Q:288:ARG:HD3	1:Q:363:CYS:CB	2.50	0.42
1:T:284:PHE:CD2	1:T:315:PHE:HZ	2.38	0.42
1:X:522:PRO:HD2	1:X:524:MET:HE3	2.02	0.42
1:Y:429:SER:HB3	1:Y:733:THR:HB	2.02	0.42
1:1:429:SER:HB3	1:1:733:THR:HB	2.02	0.42
1:2:288:ARG:HD3	1:2:363:CYS:CB	2.50	0.42
1:2:306:TRP:HZ2	1:2:692:SER:HB2	1.84	0.42
1:5:284:PHE:CD2	1:5:315:PHE:HZ	2.38	0.42
1:5:429:SER:N	1:5:734:ARG:O	2.43	0.42
1:6:387:GLN:OE1	1:t:707:LYS:HE2	2.20	0.42
1:6:433:ASP:N	1:6:433:ASP:OD1	2.51	0.42
1:6:522:PRO:HD2	1:6:524:MET:HE3	2.02	0.42
1:a:288:ARG:HD3	1:a:363:CYS:HB3	2.00	0.42
1:b:517:LEU:HD13	1:b:517:LEU:HA	1.87	0.42
1:c:306:TRP:HZ2	1:c:692:SER:HB2	1.84	0.42
1:c:475:GLY:HA2	1:d:519:ASN:HB3	2.02	0.42
1:d:306:TRP:HZ2	1:d:692:SER:HB2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:429:SER:HB3	1:e:733:THR:HB	2.02	0.42
1:f:352:LEU:CD1	1:f:400:PHE:HE2	2.26	0.42
1:g:429:SER:HB3	1:g:733:THR:HB	2.02	0.42
1:h:235:LEU:HB2	1:h:238:ARG:HG2	2.01	0.42
1:j:286:PHE:CE1	1:j:619:TRP:HH2	2.38	0.42
1:j:288:ARG:HD3	1:j:363:CYS:HB3	2.00	0.42
1:k:519:ASN:O	1:k:520:PRO:C	2.63	0.42
1:k:707:LYS:HE2	1:s:387:GLN:OE1	2.19	0.42
1:l:387:GLN:OE1	1:r:707:LYS:HE2	2.19	0.42
1:m:306:TRP:HZ2	1:m:692:SER:HB2	1.84	0.42
1:m:429:SER:HB3	1:m:733:THR:HB	2.02	0.42
1:o:522:PRO:HB2	1:o:524:MET:CE	2.47	0.42
1:p:288:ARG:HD3	1:p:363:CYS:CB	2.50	0.42
1:q:246:THR:CG2	1:q:371:VAL:HG22	2.50	0.42
1:s:235:LEU:HB2	1:s:238:ARG:HG2	2.01	0.42
1:s:284:PHE:CD2	1:s:315:PHE:HZ	2.38	0.42
1:s:352:LEU:HD21	1:s:400:PHE:HZ	1.80	0.42
1:u:284:PHE:CD2	1:u:315:PHE:HZ	2.38	0.42
1:u:429:SER:N	1:u:734:ARG:O	2.43	0.42
1:A:246:THR:CG2	1:A:371:VAL:HG22	2.50	0.42
1:B:322:VAL:CG1	1:B:673:GLN:HE21	2.33	0.42
1:C:284:PHE:CD2	1:C:315:PHE:HZ	2.38	0.42
1:C:322:VAL:CG1	1:C:673:GLN:HE21	2.33	0.42
1:C:352:LEU:CD1	1:C:400:PHE:HE2	2.26	0.42
1:E:519:ASN:HB3	1:F:475:GLY:HA2	2.00	0.42
1:H:519:ASN:O	1:H:520:PRO:C	2.63	0.42
1:I:284:PHE:CD2	1:I:315:PHE:HZ	2.38	0.42
1:J:246:THR:CG2	1:J:371:VAL:HG22	2.50	0.42
1:J:322:VAL:CG1	1:J:673:GLN:HE21	2.33	0.42
1:K:522:PRO:HD2	1:K:524:MET:HE3	2.02	0.42
1:L:288:ARG:HD3	1:L:363:CYS:CB	2.50	0.42
1:N:522:PRO:HD2	1:N:524:MET:HE3	2.02	0.42
1:O:284:PHE:CD2	1:O:315:PHE:HZ	2.38	0.42
1:O:429:SER:N	1:O:734:ARG:O	2.43	0.42
1:P:306:TRP:HZ2	1:P:692:SER:HB2	1.84	0.42
1:P:519:ASN:O	1:P:520:PRO:C	2.63	0.42
1:P:563:GLU:OE2	1:P:613:TYR:OH	2.17	0.42
1:V:235:LEU:HB2	1:V:238:ARG:HG2	2.01	0.42
1:V:355:VAL:H	1:V:646:GLN:HE22	1.67	0.42
1:X:528:LYS:HE2	1:X:528:LYS:HB3	1.88	0.42
1:Y:284:PHE:CD2	1:Y:315:PHE:HZ	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:306:TRP:HZ2	1:Y:692:SER:HB2	1.84	0.42
1:Y:707:LYS:HE2	1:x:387:GLN:OE1	2.19	0.42
1:Y:716:ASN:CG	1:Y:717:THR:H	2.27	0.42
1:Z:246:THR:CG2	1:Z:371:VAL:HG22	2.50	0.42
1:Z:360:HIS:HA	1:w:442:GLN:HA	2.01	0.42
1:1:260:ILE:N	1:1:276:GLY:O	2.32	0.42
1:2:322:VAL:CG1	1:2:673:GLN:HE21	2.33	0.42
1:2:522:PRO:HD2	1:2:524:MET:HE3	2.02	0.42
1:2:528:LYS:HE2	1:2:528:LYS:HB3	1.88	0.42
1:3:288:ARG:HD3	1:3:363:CYS:CB	2.50	0.42
1:5:306:TRP:HZ2	1:5:692:SER:HB2	1.84	0.42
1:6:284:PHE:CD2	1:6:315:PHE:HZ	2.38	0.42
1:a:522:PRO:HD2	1:a:524:MET:HE3	2.02	0.42
1:c:284:PHE:CD2	1:c:315:PHE:HZ	2.38	0.42
1:i:522:PRO:HD2	1:i:524:MET:HE3	2.02	0.42
1:k:429:SER:HB3	1:k:733:THR:HB	2.02	0.42
1:m:716:ASN:CG	1:m:717:THR:H	2.27	0.42
1:n:246:THR:CG2	1:n:371:VAL:HG22	2.50	0.42
1:n:322:VAL:CG1	1:n:673:GLN:HE21	2.33	0.42
1:o:246:THR:CG2	1:o:371:VAL:HG22	2.50	0.42
1:o:288:ARG:HD3	1:o:363:CYS:CB	2.50	0.42
1:p:322:VAL:CG1	1:p:673:GLN:HE21	2.33	0.42
1:p:379:TYR:HH	1:p:395:TYR:H	1.61	0.42
1:r:522:PRO:HB2	1:r:524:MET:CE	2.47	0.42
1:s:286:PHE:CE1	1:s:619:TRP:HH2	2.38	0.42
1:t:286:PHE:CE1	1:t:619:TRP:HH2	2.38	0.42
1:t:519:ASN:HB3	1:v:475:GLY:HA2	2.00	0.42
1:t:522:PRO:HD2	1:t:524:MET:HE3	2.02	0.42
1:v:322:VAL:CG1	1:v:673:GLN:HE21	2.33	0.42
1:v:433:ASP:OD1	1:v:433:ASP:N	2.51	0.42
1:v:522:PRO:HD2	1:v:524:MET:HE3	2.02	0.42
1:v:707:LYS:HE2	1:w:387:GLN:OE1	2.19	0.42
1:x:288:ARG:HD3	1:x:363:CYS:CB	2.50	0.42
1:y:288:ARG:HD3	1:y:363:CYS:CB	2.50	0.42
1:y:357:GLY:O	1:7:477:ASN:ND2	2.47	0.42
1:y:522:PRO:HD2	1:y:524:MET:HE3	2.02	0.42
1:E:716:ASN:CG	1:E:717:THR:H	2.27	0.41
1:F:235:LEU:HB2	1:F:238:ARG:HG2	2.01	0.41
1:G:246:THR:CG2	1:G:371:VAL:HG22	2.50	0.41
1:G:286:PHE:CE1	1:G:619:TRP:HH2	2.38	0.41
1:H:288:ARG:HD3	1:H:363:CYS:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:352:LEU:CD1	1:H:400:PHE:HE2	2.26	0.41
1:H:429:SER:HB3	1:H:733:THR:HB	2.02	0.41
1:H:716:ASN:CG	1:H:717:THR:H	2.27	0.41
1:K:288:ARG:HD3	1:K:363:CYS:CB	2.50	0.41
1:M:286:PHE:CE1	1:M:619:TRP:HH2	2.38	0.41
1:R:260:ILE:N	1:R:276:GLY:O	2.32	0.41
1:R:355:VAL:H	1:R:646:GLN:HE22	1.67	0.41
1:W:528:LYS:HB3	1:W:528:LYS:HE2	1.88	0.41
1:X:429:SER:HB3	1:X:733:THR:HB	2.02	0.41
1:Y:246:THR:CG2	1:Y:371:VAL:HG22	2.50	0.41
1:1:286:PHE:CE1	1:1:619:TRP:HH2	2.38	0.41
1:1:306:TRP:HZ2	1:1:692:SER:HB2	1.84	0.41
1:2:286:PHE:CE1	1:2:619:TRP:HH2	2.38	0.41
1:2:433:ASP:OD1	1:2:433:ASP:N	2.51	0.41
1:3:246:THR:CG2	1:3:371:VAL:HG22	2.50	0.41
1:4:246:THR:CG2	1:4:371:VAL:HG22	2.50	0.41
1:a:284:PHE:CD2	1:a:315:PHE:HZ	2.38	0.41
1:b:284:PHE:CD2	1:b:315:PHE:HZ	2.38	0.41
1:b:429:SER:HB3	1:b:733:THR:HB	2.02	0.41
1:b:519:ASN:O	1:b:520:PRO:C	2.63	0.41
1:d:519:ASN:O	1:d:520:PRO:C	2.63	0.41
1:e:352:LEU:CD1	1:e:400:PHE:HE2	2.26	0.41
1:e:716:ASN:CG	1:e:717:THR:H	2.27	0.41
1:f:284:PHE:CD2	1:f:315:PHE:HZ	2.38	0.41
1:f:572:VAL:HB	1:f:575:GLU:HB3	2.03	0.41
1:g:358:SER:HB2	1:g:360:HIS:NE2	2.34	0.41
1:g:522:PRO:HD2	1:g:524:MET:HE3	2.02	0.41
1:h:429:SER:HB3	1:h:733:THR:HB	2.02	0.41
1:i:235:LEU:HB2	1:i:238:ARG:HG2	2.01	0.41
1:i:322:VAL:CG1	1:i:673:GLN:HE21	2.33	0.41
1:j:235:LEU:HB2	1:j:238:ARG:HG2	2.01	0.41
1:j:246:THR:CG2	1:j:371:VAL:HG22	2.50	0.41
1:k:288:ARG:HD3	1:k:363:CYS:CB	2.50	0.41
1:m:246:THR:CG2	1:m:371:VAL:HG22	2.50	0.41
1:m:288:ARG:HD3	1:m:363:CYS:CB	2.50	0.41
1:r:572:VAL:HB	1:r:575:GLU:HB3	2.02	0.41
1:s:355:VAL:H	1:s:646:GLN:HE22	1.67	0.41
1:u:322:VAL:CG1	1:u:673:GLN:HE21	2.33	0.41
1:u:522:PRO:HB2	1:u:524:MET:CE	2.48	0.41
1:u:522:PRO:HD2	1:u:524:MET:HE3	2.02	0.41
1:w:322:VAL:CG1	1:w:673:GLN:HE21	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:522:PRO:HD2	1:w:524:MET:HE3	2.02	0.41
1:x:246:THR:CG2	1:x:371:VAL:HG22	2.50	0.41
1:z:286:PHE:CE1	1:z:619:TRP:HH2	2.38	0.41
1:z:306:TRP:HZ2	1:z:692:SER:HB2	1.84	0.41
1:A:433:ASP:N	1:A:433:ASP:OD1	2.51	0.41
1:B:716:ASN:CG	1:B:717:THR:H	2.27	0.41
1:C:286:PHE:CE1	1:C:619:TRP:HH2	2.38	0.41
1:C:387:GLN:OE1	1:D:707:LYS:HE2	2.19	0.41
1:C:429:SER:N	1:C:734:ARG:O	2.43	0.41
1:D:284:PHE:CD2	1:D:315:PHE:HZ	2.38	0.41
1:D:288:ARG:HD3	1:D:363:CYS:HB3	2.00	0.41
1:D:429:SER:HB3	1:D:733:THR:HB	2.02	0.41
1:D:522:PRO:HD2	1:D:524:MET:HE3	2.02	0.41
1:F:306:TRP:HZ2	1:F:692:SER:HB2	1.84	0.41
1:F:519:ASN:O	1:F:520:PRO:C	2.63	0.41
1:G:572:VAL:HB	1:G:575:GLU:HB3	2.02	0.41
1:J:522:PRO:HD2	1:J:524:MET:HE3	2.02	0.41
1:L:522:PRO:HD2	1:L:524:MET:HE3	2.02	0.41
1:M:519:ASN:HB3	1:2:475:GLY:HA2	2.00	0.41
1:N:284:PHE:CD2	1:N:315:PHE:HZ	2.38	0.41
1:O:246:THR:CG2	1:O:371:VAL:HG22	2.50	0.41
1:O:306:TRP:HZ2	1:O:692:SER:HB2	1.84	0.41
1:P:246:THR:CG2	1:P:371:VAL:HG22	2.50	0.41
1:Q:284:PHE:CD2	1:Q:315:PHE:HZ	2.38	0.41
1:Q:429:SER:HB3	1:Q:733:THR:HB	2.02	0.41
1:R:284:PHE:CD2	1:R:315:PHE:HZ	2.38	0.41
1:R:352:LEU:CD1	1:R:400:PHE:HE2	2.26	0.41
1:R:572:VAL:HB	1:R:575:GLU:HB3	2.03	0.41
1:S:306:TRP:HZ2	1:S:692:SER:HB2	1.84	0.41
1:S:429:SER:N	1:S:734:ARG:O	2.43	0.41
1:U:572:VAL:HB	1:U:575:GLU:HB3	2.02	0.41
1:V:284:PHE:CD2	1:V:315:PHE:HZ	2.38	0.41
1:V:286:PHE:CE1	1:V:619:TRP:HH2	2.38	0.41
1:V:429:SER:HB3	1:V:733:THR:HB	2.02	0.41
1:W:429:SER:HB3	1:W:733:THR:HB	2.02	0.41
1:X:519:ASN:O	1:X:520:PRO:C	2.63	0.41
1:Y:288:ARG:HD3	1:Y:363:CYS:CB	2.50	0.41
1:Z:235:LEU:HB2	1:Z:238:ARG:HG2	2.01	0.41
1:Z:380:LEU:HG	1:w:438:PRO:HD3	2.03	0.41
1:4:429:SER:HB3	1:4:733:THR:HB	2.02	0.41
1:4:572:VAL:HB	1:4:575:GLU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:246:THR:CG2	1:5:371:VAL:HG22	2.50	0.41
1:a:429:SER:HB3	1:a:733:THR:HB	2.02	0.41
1:b:246:THR:CG2	1:b:371:VAL:HG22	2.50	0.41
1:b:732:LEU:HD23	1:b:732:LEU:HA	1.93	0.41
1:c:429:SER:HB3	1:c:733:THR:HB	2.02	0.41
1:c:693:LYS:HG3	1:d:400:PHE:HE1	1.86	0.41
1:d:235:LEU:HB2	1:d:238:ARG:HG2	2.01	0.41
1:g:519:ASN:O	1:g:520:PRO:C	2.63	0.41
1:h:522:PRO:HD2	1:h:524:MET:HE3	2.02	0.41
1:i:438:PRO:HD3	1:j:380:LEU:HG	2.03	0.41
1:k:716:ASN:CG	1:k:717:THR:H	2.27	0.41
1:l:429:SER:HB3	1:l:733:THR:HB	2.02	0.41
1:m:284:PHE:CD2	1:m:315:PHE:HZ	2.38	0.41
1:o:522:PRO:HD2	1:o:524:MET:HE3	2.02	0.41
1:r:286:PHE:CE1	1:r:619:TRP:HH2	2.38	0.41
1:u:246:THR:CG2	1:u:371:VAL:HG22	2.50	0.41
1:u:286:PHE:CE1	1:u:619:TRP:HH2	2.38	0.41
1:v:286:PHE:CE1	1:v:619:TRP:HH2	2.38	0.41
1:w:235:LEU:HB2	1:w:238:ARG:HG2	2.01	0.41
1:x:522:PRO:HB2	1:x:524:MET:CE	2.48	0.41
1:z:522:PRO:HD2	1:z:524:MET:HE3	2.02	0.41
1:7:572:VAL:HB	1:7:575:GLU:HB3	2.03	0.41
1:8:572:VAL:HB	1:8:575:GLU:HB3	2.03	0.41
1:B:246:THR:CG2	1:B:371:VAL:HG22	2.50	0.41
1:C:246:THR:CG2	1:C:371:VAL:HG22	2.50	0.41
1:C:288:ARG:HD3	1:C:363:CYS:CB	2.50	0.41
1:C:522:PRO:HB2	1:C:524:MET:CE	2.48	0.41
1:D:246:THR:CG2	1:D:371:VAL:HG22	2.50	0.41
1:D:260:ILE:N	1:D:276:GLY:O	2.32	0.41
1:D:286:PHE:CE1	1:D:619:TRP:HH2	2.38	0.41
1:F:322:VAL:CG1	1:F:673:GLN:HE21	2.33	0.41
1:G:519:ASN:O	1:G:520:PRO:C	2.63	0.41
1:M:284:PHE:CD2	1:M:315:PHE:HZ	2.38	0.41
1:M:322:VAL:CG1	1:M:673:GLN:HE21	2.33	0.41
1:M:519:ASN:O	1:M:520:PRO:C	2.63	0.41
1:M:522:PRO:HD2	1:M:524:MET:HE3	2.02	0.41
1:O:732:LEU:HD23	1:O:732:LEU:HA	1.93	0.41
1:P:284:PHE:CD2	1:P:315:PHE:HZ	2.38	0.41
1:P:429:SER:HB3	1:P:733:THR:HB	2.02	0.41
1:P:433:ASP:OD1	1:P:433:ASP:N	2.51	0.41
1:Q:286:PHE:CE1	1:Q:619:TRP:HH2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:477:ASN:ND2	1:S:357:GLY:O	2.48	0.41
1:T:306:TRP:HZ2	1:T:692:SER:HB2	1.84	0.41
1:T:357:GLY:O	1:f:477:ASN:ND2	2.48	0.41
1:T:519:ASN:O	1:T:520:PRO:C	2.63	0.41
1:U:246:THR:CG2	1:U:371:VAL:HG22	2.50	0.41
1:U:429:SER:HB3	1:U:733:THR:HB	2.02	0.41
1:V:522:PRO:HD2	1:V:524:MET:HE3	2.02	0.41
1:W:286:PHE:CE1	1:W:619:TRP:HH2	2.38	0.41
1:W:572:VAL:HB	1:W:575:GLU:HB3	2.03	0.41
1:X:358:SER:HB2	1:X:360:HIS:NE2	2.34	0.41
1:X:399:TYR:CZ	1:6:294:SER:CB	2.86	0.41
1:Z:522:PRO:HD2	1:Z:524:MET:HE3	2.02	0.41
1:1:288:ARG:HD3	1:1:363:CYS:CB	2.50	0.41
1:1:519:ASN:O	1:1:520:PRO:C	2.63	0.41
1:2:284:PHE:CD2	1:2:315:PHE:HZ	2.38	0.41
1:3:284:PHE:CD2	1:3:315:PHE:HZ	2.38	0.41
1:a:286:PHE:CE1	1:a:619:TRP:HH2	2.38	0.41
1:a:707:LYS:HE2	1:u:387:GLN:OE1	2.19	0.41
1:b:433:ASP:O	1:b:476:ARG:NE	2.51	0.41
1:c:286:PHE:CE1	1:c:619:TRP:HH2	2.38	0.41
1:f:355:VAL:H	1:f:646:GLN:HE22	1.67	0.41
1:g:246:THR:CG2	1:g:371:VAL:HG22	2.50	0.41
1:h:284:PHE:CD2	1:h:315:PHE:HZ	2.38	0.41
1:h:286:PHE:CE1	1:h:619:TRP:HH2	2.38	0.41
1:h:355:VAL:H	1:h:646:GLN:HE22	1.67	0.41
1:i:286:PHE:CE1	1:i:619:TRP:HH2	2.38	0.41
1:j:522:PRO:HD2	1:j:524:MET:HE3	2.02	0.41
1:k:322:VAL:CG1	1:k:673:GLN:HE21	2.33	0.41
1:k:352:LEU:HD21	1:k:400:PHE:HZ	1.80	0.41
1:l:572:VAL:HB	1:l:575:GLU:HB3	2.03	0.41
1:p:294:SER:CB	1:q:399:TYR:CZ	2.86	0.41
1:p:716:ASN:CG	1:p:717:THR:H	2.27	0.41
1:q:288:ARG:HD3	1:q:363:CYS:CB	2.50	0.41
1:q:433:ASP:OD1	1:q:433:ASP:N	2.51	0.41
1:r:246:THR:CG2	1:r:371:VAL:HG22	2.50	0.41
1:t:284:PHE:CD2	1:t:315:PHE:HZ	2.38	0.41
1:u:519:ASN:O	1:u:520:PRO:C	2.63	0.41
1:v:284:PHE:CD2	1:v:315:PHE:HZ	2.38	0.41
1:x:284:PHE:CD2	1:x:315:PHE:HZ	2.38	0.41
1:y:519:ASN:O	1:y:520:PRO:C	2.63	0.41
1:z:246:THR:CG2	1:z:371:VAL:HG22	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:288:ARG:HD3	1:z:363:CYS:CB	2.50	0.41
1:z:519:ASN:O	1:z:520:PRO:C	2.63	0.41
1:7:286:PHE:CE1	1:7:619:TRP:HH2	2.38	0.41
1:8:286:PHE:CE1	1:8:619:TRP:HH2	2.38	0.41
1:A:284:PHE:CD2	1:A:315:PHE:HZ	2.38	0.41
1:C:519:ASN:O	1:C:520:PRO:C	2.63	0.41
1:E:246:THR:CG2	1:E:371:VAL:HG22	2.50	0.41
1:F:380:LEU:HG	1:Q:438:PRO:HD3	2.03	0.41
1:F:572:VAL:HB	1:F:575:GLU:HB3	2.03	0.41
1:H:284:PHE:CD2	1:H:315:PHE:HZ	2.38	0.41
1:H:322:VAL:CG1	1:H:673:GLN:HE21	2.33	0.41
1:J:352:LEU:HD21	1:J:400:PHE:HZ	1.80	0.41
1:K:322:VAL:CG1	1:K:673:GLN:HE21	2.33	0.41
1:K:519:ASN:HB3	1:8:475:GLY:HA2	2.00	0.41
1:K:519:ASN:O	1:K:520:PRO:C	2.63	0.41
1:L:429:SER:HB3	1:L:733:THR:HB	2.02	0.41
1:N:429:SER:HB3	1:N:733:THR:HB	2.02	0.41
1:P:433:ASP:O	1:P:476:ARG:NE	2.51	0.41
1:P:732:LEU:HD23	1:P:732:LEU:HA	1.93	0.41
1:Q:522:PRO:HB2	1:Q:524:MET:CE	2.47	0.41
1:R:429:SER:HB3	1:R:733:THR:HB	2.02	0.41
1:S:519:ASN:O	1:S:520:PRO:C	2.63	0.41
1:W:322:VAL:CG1	1:W:673:GLN:HE21	2.33	0.41
1:X:246:THR:CG2	1:X:371:VAL:HG22	2.50	0.41
1:X:286:PHE:CE1	1:X:619:TRP:HH2	2.38	0.41
1:Y:322:VAL:CG1	1:Y:673:GLN:HE21	2.33	0.41
1:Z:284:PHE:CD2	1:Z:315:PHE:HZ	2.38	0.41
1:1:246:THR:CG2	1:1:371:VAL:HG22	2.50	0.41
1:1:522:PRO:HD2	1:1:524:MET:HE3	2.02	0.41
1:3:522:PRO:HB2	1:3:524:MET:CE	2.47	0.41
1:4:322:VAL:CG1	1:4:673:GLN:HE21	2.33	0.41
1:5:352:LEU:HD21	1:5:400:PHE:HZ	1.80	0.41
1:a:246:THR:CG2	1:a:371:VAL:HG22	2.50	0.41
1:a:288:ARG:HD3	1:a:363:CYS:CB	2.50	0.41
1:d:322:VAL:CG1	1:d:673:GLN:HE21	2.33	0.41
1:d:572:VAL:HB	1:d:575:GLU:HB3	2.02	0.41
1:d:700:GLN:HB3	1:q:702:THR:HG22	2.02	0.41
1:e:246:THR:CG2	1:e:371:VAL:HG22	2.50	0.41
1:e:286:PHE:CE1	1:e:619:TRP:HH2	2.38	0.41
1:e:387:GLN:OE1	1:q:707:LYS:HE2	2.20	0.41
1:f:288:ARG:HD3	1:f:363:CYS:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:433:ASP:OD1	1:f:433:ASP:N	2.51	0.41
1:g:286:PHE:CE1	1:g:619:TRP:HH2	2.38	0.41
1:g:528:LYS:HE2	1:g:528:LYS:HB3	1.88	0.41
1:j:355:VAL:H	1:j:646:GLN:HE22	1.66	0.41
1:l:286:PHE:CE1	1:l:619:TRP:HH2	2.38	0.41
1:l:528:LYS:HB3	1:l:528:LYS:HE2	1.88	0.41
1:m:322:VAL:CG1	1:m:673:GLN:HE21	2.33	0.41
1:n:306:TRP:HZ2	1:n:692:SER:HB2	1.84	0.41
1:n:522:PRO:HD2	1:n:524:MET:HE3	2.02	0.41
1:o:429:SER:HB3	1:o:733:THR:HB	2.02	0.41
1:q:286:PHE:CE1	1:q:619:TRP:HH2	2.38	0.41
1:q:429:SER:HB3	1:q:733:THR:HB	2.02	0.41
1:t:246:THR:CG2	1:t:371:VAL:HG22	2.50	0.41
1:t:322:VAL:CG1	1:t:673:GLN:HE21	2.33	0.41
1:t:519:ASN:O	1:t:520:PRO:C	2.63	0.41
1:v:517:LEU:HA	1:v:517:LEU:HD13	1.87	0.41
1:y:322:VAL:CG1	1:y:673:GLN:HE21	2.33	0.41
1:y:519:ASN:HB3	1:7:475:GLY:HA2	2.00	0.41
1:7:246:THR:CG2	1:7:371:VAL:HG22	2.50	0.41
1:7:284:PHE:CD2	1:7:315:PHE:HZ	2.38	0.41
1:8:284:PHE:CD2	1:8:315:PHE:HZ	2.38	0.41
1:A:286:PHE:CE1	1:A:619:TRP:HH2	2.38	0.41
1:A:288:ARG:HD3	1:A:363:CYS:CB	2.50	0.41
1:A:429:SER:HB3	1:A:733:THR:HB	2.02	0.41
1:B:286:PHE:CE1	1:B:619:TRP:HH2	2.38	0.41
1:D:288:ARG:HD3	1:D:363:CYS:CB	2.50	0.41
1:E:235:LEU:HB2	1:E:238:ARG:HG2	2.01	0.41
1:F:284:PHE:CD2	1:F:315:PHE:HZ	2.38	0.41
1:L:235:LEU:HB2	1:L:238:ARG:HG2	2.01	0.41
1:O:572:VAL:HB	1:O:575:GLU:HB3	2.03	0.41
1:P:517:LEU:HA	1:P:517:LEU:HD13	1.87	0.41
1:R:288:ARG:HD3	1:R:363:CYS:CB	2.50	0.41
1:S:581:ALA:HA	1:S:593:THR:HG22	2.03	0.41
1:T:581:ALA:HA	1:T:593:THR:HG22	2.03	0.41
1:U:286:PHE:CE1	1:U:619:TRP:HH2	2.38	0.41
1:V:350:TYR:HE2	1:V:642:HIS:HD1	1.69	0.41
1:X:572:VAL:HB	1:X:575:GLU:HB3	2.02	0.41
1:5:522:PRO:HB2	1:5:524:MET:CE	2.47	0.41
1:5:572:VAL:HB	1:5:575:GLU:HB3	2.03	0.41
1:6:429:SER:HB3	1:6:733:THR:HB	2.02	0.41
1:a:350:TYR:HE2	1:a:642:HIS:HD1	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:433:ASP:OD1	1:b:433:ASP:N	2.51	0.41
1:c:693:LYS:CE	1:d:399:TYR:HB3	2.50	0.41
1:d:284:PHE:CD2	1:d:315:PHE:HZ	2.38	0.41
1:g:572:VAL:HB	1:g:575:GLU:HB3	2.02	0.41
1:i:429:SER:N	1:i:734:ARG:O	2.43	0.41
1:j:284:PHE:CD2	1:j:315:PHE:HZ	2.38	0.41
1:j:322:VAL:CG1	1:j:673:GLN:HE21	2.33	0.41
1:j:352:LEU:CD1	1:j:400:PHE:HE2	2.26	0.41
1:l:322:VAL:CG1	1:l:673:GLN:HE21	2.33	0.41
1:l:522:PRO:HD2	1:l:524:MET:HE3	2.02	0.41
1:m:519:ASN:O	1:m:520:PRO:C	2.63	0.41
1:n:284:PHE:CD2	1:n:315:PHE:HZ	2.38	0.41
1:p:246:THR:CG2	1:p:371:VAL:HG22	2.50	0.41
1:q:284:PHE:CD2	1:q:315:PHE:HZ	2.38	0.41
1:r:288:ARG:HD3	1:r:363:CYS:CB	2.50	0.41
1:r:477:ASN:ND2	1:s:357:GLY:O	2.47	0.41
1:r:519:ASN:O	1:r:520:PRO:C	2.63	0.41
1:t:429:SER:N	1:t:734:ARG:O	2.43	0.41
1:u:288:ARG:HD3	1:u:363:CYS:CB	2.50	0.41
1:v:352:LEU:HD21	1:v:400:PHE:HZ	1.80	0.41
1:w:286:PHE:CE1	1:w:619:TRP:HH2	2.38	0.41
1:w:429:SER:N	1:w:734:ARG:O	2.43	0.41
1:y:522:PRO:HB2	1:y:524:MET:CE	2.48	0.41
1:z:284:PHE:CD2	1:z:315:PHE:HZ	2.38	0.41
1:A:322:VAL:CG1	1:A:673:GLN:HE21	2.33	0.41
1:A:519:ASN:O	1:A:520:PRO:C	2.63	0.41
1:B:438:PRO:HD3	1:J:380:LEU:HG	2.03	0.41
1:B:581:ALA:HA	1:B:593:THR:HG22	2.03	0.41
1:C:581:ALA:HA	1:C:593:THR:HG22	2.03	0.41
1:E:286:PHE:CE1	1:E:619:TRP:HH2	2.38	0.41
1:G:288:ARG:HD3	1:G:363:CYS:CB	2.50	0.41
1:H:246:THR:CG2	1:H:371:VAL:HG22	2.50	0.41
1:H:352:LEU:HD21	1:H:400:PHE:HZ	1.80	0.41
1:I:572:VAL:HB	1:I:575:GLU:HB3	2.03	0.41
1:J:286:PHE:CE1	1:J:619:TRP:HH2	2.38	0.41
1:K:522:PRO:HB2	1:K:524:MET:CE	2.48	0.41
1:M:246:THR:CG2	1:M:371:VAL:HG22	2.50	0.41
1:M:581:ALA:HA	1:M:593:THR:HG22	2.03	0.41
1:O:352:LEU:HD21	1:O:400:PHE:HZ	1.80	0.41
1:R:433:ASP:OD1	1:R:433:ASP:N	2.51	0.41
1:R:519:ASN:O	1:R:520:PRO:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:286:PHE:CE1	1:S:619:TRP:HH2	2.38	0.41
1:S:438:PRO:HD3	1:U:380:LEU:HG	2.03	0.41
1:T:286:PHE:CE1	1:T:619:TRP:HH2	2.38	0.41
1:T:380:LEU:HG	1:f:438:PRO:HD3	2.03	0.41
1:T:438:PRO:HD3	1:4:380:LEU:HG	2.03	0.41
1:U:322:VAL:CG1	1:U:673:GLN:HE21	2.33	0.41
1:W:522:PRO:HD2	1:W:524:MET:HE3	2.02	0.41
1:W:581:ALA:HA	1:W:593:THR:HG22	2.03	0.41
1:Y:519:ASN:O	1:Y:520:PRO:C	2.63	0.41
1:Y:572:VAL:HB	1:Y:575:GLU:HB3	2.02	0.41
1:Z:355:VAL:H	1:Z:646:GLN:HE22	1.66	0.41
1:Z:438:PRO:HD3	1:x:380:LEU:HG	2.03	0.41
1:Z:519:ASN:O	1:Z:520:PRO:C	2.63	0.41
1:1:572:VAL:HB	1:1:575:GLU:HB3	2.03	0.41
1:2:246:THR:CG2	1:2:371:VAL:HG22	2.50	0.41
1:2:350:TYR:HE2	1:2:642:HIS:HD1	1.69	0.41
1:6:438:PRO:HD3	1:b:380:LEU:HG	2.03	0.41
1:b:375:PRO:HA	1:c:662:PHE:CD1	2.56	0.41
1:c:581:ALA:HA	1:c:593:THR:HG22	2.03	0.41
1:d:229:HIS:ND1	1:r:401:PRO:HB3	2.36	0.41
1:e:519:ASN:O	1:e:520:PRO:C	2.63	0.41
1:f:429:SER:HB3	1:f:733:THR:HB	2.02	0.41
1:f:519:ASN:O	1:f:520:PRO:C	2.63	0.41
1:h:350:TYR:HE2	1:h:642:HIS:HD1	1.69	0.41
1:i:246:THR:CG2	1:i:371:VAL:HG22	2.50	0.41
1:j:433:ASP:N	1:j:433:ASP:OD1	2.51	0.41
1:j:519:ASN:O	1:j:520:PRO:C	2.63	0.41
1:j:522:PRO:HB2	1:j:524:MET:CE	2.47	0.41
1:k:284:PHE:CD2	1:k:315:PHE:HZ	2.38	0.41
1:l:581:ALA:HA	1:l:593:THR:HG22	2.03	0.41
1:n:286:PHE:CE1	1:n:619:TRP:HH2	2.38	0.41
1:n:380:LEU:HG	1:p:438:PRO:HD3	2.03	0.41
1:o:235:LEU:HB2	1:o:238:ARG:HG2	2.01	0.41
1:o:355:VAL:H	1:o:646:GLN:HE22	1.67	0.41
1:p:286:PHE:CE1	1:p:619:TRP:HH2	2.38	0.41
1:p:572:VAL:HB	1:p:575:GLU:HB3	2.03	0.41
1:q:519:ASN:O	1:q:520:PRO:C	2.63	0.41
1:r:438:PRO:HD3	1:s:380:LEU:HG	2.03	0.41
1:s:572:VAL:HB	1:s:575:GLU:HB3	2.03	0.41
1:t:581:ALA:HA	1:t:593:THR:HG22	2.03	0.41
1:u:433:ASP:OD1	1:u:433:ASP:N	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:246:THR:CG2	1:v:371:VAL:HG22	2.50	0.41
1:w:429:SER:HB3	1:w:733:THR:HB	2.02	0.41
1:z:572:VAL:HB	1:z:575:GLU:HB3	2.03	0.41
1:8:246:THR:CG2	1:8:371:VAL:HG22	2.50	0.41
1:B:572:VAL:HB	1:B:575:GLU:HB3	2.02	0.41
1:C:433:ASP:OD1	1:C:433:ASP:N	2.51	0.41
1:D:350:TYR:HE2	1:D:642:HIS:HD1	1.69	0.41
1:E:352:LEU:CD1	1:E:400:PHE:HE2	2.26	0.41
1:E:519:ASN:O	1:E:520:PRO:C	2.63	0.41
1:H:438:PRO:HD3	1:W:380:LEU:HG	2.03	0.41
1:I:288:ARG:HD3	1:I:363:CYS:CB	2.50	0.41
1:J:284:PHE:CD2	1:J:315:PHE:HZ	2.38	0.41
1:J:306:TRP:HZ2	1:J:692:SER:HB2	1.84	0.41
1:J:517:LEU:HA	1:J:517:LEU:HD13	1.87	0.41
1:K:286:PHE:CE1	1:K:619:TRP:HH2	2.38	0.41
1:K:309:ARG:HG2	1:K:310:PRO:O	2.21	0.41
1:K:380:LEU:HG	1:8:438:PRO:HD3	2.03	0.41
1:L:284:PHE:CD2	1:L:315:PHE:HZ	2.38	0.41
1:L:322:VAL:CG1	1:L:673:GLN:HE21	2.33	0.41
1:L:355:VAL:H	1:L:646:GLN:HE22	1.67	0.41
1:M:429:SER:N	1:M:734:ARG:O	2.43	0.41
1:N:438:PRO:HD3	1:P:380:LEU:HG	2.03	0.41
1:N:572:VAL:HB	1:N:575:GLU:HB3	2.02	0.41
1:O:417:PHE:CE1	1:O:644:PRO:HD3	2.56	0.41
1:O:522:PRO:HB2	1:O:524:MET:CE	2.47	0.41
1:O:581:ALA:HA	1:O:593:THR:HG22	2.03	0.41
1:R:438:PRO:HD3	1:S:380:LEU:HG	2.03	0.41
1:S:429:SER:HB3	1:S:733:THR:HB	2.02	0.41
1:W:284:PHE:CD2	1:W:315:PHE:HZ	2.38	0.41
1:Z:288:ARG:HD3	1:Z:363:CYS:CB	2.50	0.41
1:Z:322:VAL:CG1	1:Z:673:GLN:HE21	2.33	0.41
1:1:284:PHE:CD2	1:1:315:PHE:HZ	2.38	0.41
1:2:352:LEU:HD21	1:2:400:PHE:HZ	1.81	0.41
1:2:519:ASN:O	1:2:520:PRO:C	2.63	0.41
1:3:286:PHE:CE1	1:3:619:TRP:HH2	2.38	0.41
1:3:380:LEU:HG	1:j:438:PRO:HD3	2.03	0.41
1:4:286:PHE:CE1	1:4:619:TRP:HH2	2.38	0.41
1:5:417:PHE:CE1	1:5:644:PRO:HD3	2.56	0.41
1:5:581:ALA:HA	1:5:593:THR:HG22	2.03	0.41
1:b:522:PRO:HB2	1:b:524:MET:CE	2.47	0.41
1:c:522:PRO:HB2	1:c:524:MET:CE	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:246:THR:CG2	1:d:371:VAL:HG22	2.50	0.41
1:e:235:LEU:HB2	1:e:238:ARG:HG2	2.01	0.41
1:e:662:PHE:CD1	1:q:375:PRO:HA	2.56	0.41
1:f:260:ILE:N	1:f:276:GLY:O	2.32	0.41
1:j:288:ARG:HD3	1:j:363:CYS:CB	2.50	0.41
1:k:246:THR:CG2	1:k:371:VAL:HG22	2.50	0.41
1:l:246:THR:CG2	1:l:371:VAL:HG22	2.50	0.41
1:q:322:VAL:CG1	1:q:673:GLN:HE21	2.33	0.41
1:q:380:LEU:HG	1:s:438:PRO:HD3	2.03	0.41
1:r:522:PRO:HD2	1:r:524:MET:HE3	2.02	0.41
1:r:581:ALA:HA	1:r:593:THR:HG22	2.03	0.41
1:s:288:ARG:HD3	1:s:363:CYS:CB	2.50	0.41
1:s:352:LEU:CD1	1:s:400:PHE:HE2	2.26	0.41
1:v:350:TYR:HE2	1:v:642:HIS:HD1	1.69	0.41
1:v:519:ASN:O	1:v:520:PRO:C	2.63	0.41
1:x:286:PHE:CE1	1:x:619:TRP:HH2	2.38	0.41
1:x:306:TRP:HZ2	1:x:692:SER:HB2	1.84	0.41
1:y:309:ARG:HG2	1:y:310:PRO:O	2.21	0.41
1:y:438:PRO:HD3	1:z:380:LEU:HG	2.03	0.41
1:8:429:SER:HB3	1:8:733:THR:HB	2.02	0.41
1:A:417:PHE:CE1	1:A:644:PRO:HD3	2.56	0.41
1:C:572:VAL:HB	1:C:575:GLU:HB3	2.02	0.41
1:D:519:ASN:O	1:D:520:PRO:C	2.63	0.41
1:F:246:THR:CG2	1:F:371:VAL:HG22	2.50	0.41
1:G:284:PHE:CD2	1:G:315:PHE:HZ	2.38	0.41
1:G:438:PRO:HD3	1:I:380:LEU:HG	2.03	0.41
1:G:477:ASN:ND2	1:I:357:GLY:O	2.47	0.41
1:G:522:PRO:HD2	1:G:524:MET:HE3	2.02	0.41
1:G:581:ALA:HA	1:G:593:THR:HG22	2.03	0.41
1:H:350:TYR:HE2	1:H:642:HIS:HD1	1.69	0.41
1:I:246:THR:CG2	1:I:371:VAL:HG22	2.50	0.41
1:K:438:PRO:HD3	1:1:380:LEU:HG	2.03	0.41
1:L:417:PHE:CE1	1:L:644:PRO:HD3	2.56	0.41
1:M:572:VAL:HB	1:M:575:GLU:HB3	2.03	0.41
1:O:309:ARG:HG2	1:O:310:PRO:O	2.21	0.41
1:O:517:LEU:HD13	1:O:517:LEU:HA	1.87	0.41
1:P:572:VAL:HB	1:P:575:GLU:HB3	2.03	0.41
1:Q:581:ALA:HA	1:Q:593:THR:HG22	2.03	0.41
1:S:572:VAL:HB	1:S:575:GLU:HB3	2.03	0.41
1:T:572:VAL:HB	1:T:575:GLU:HB3	2.02	0.41
1:Y:417:PHE:CE1	1:Y:644:PRO:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:352:LEU:CD1	1:Z:400:PHE:HE2	2.26	0.41
1:1:581:ALA:HA	1:1:593:THR:HG22	2.03	0.41
1:3:306:TRP:HZ2	1:3:692:SER:HB2	1.84	0.41
1:3:352:LEU:CD1	1:3:400:PHE:HE2	2.26	0.41
1:6:572:VAL:HB	1:6:575:GLU:HB3	2.02	0.41
1:a:322:VAL:CG1	1:a:673:GLN:HE21	2.33	0.41
1:a:352:LEU:CD1	1:a:400:PHE:HE2	2.26	0.41
1:a:417:PHE:CE1	1:a:644:PRO:HD3	2.56	0.41
1:c:519:ASN:O	1:c:520:PRO:C	2.63	0.41
1:d:286:PHE:CE1	1:d:619:TRP:HH2	2.38	0.41
1:d:517:LEU:HA	1:d:517:LEU:HD13	1.87	0.41
1:e:581:ALA:HA	1:e:593:THR:HG22	2.03	0.41
1:g:517:LEU:HD13	1:g:517:LEU:HA	1.87	0.41
1:h:528:LYS:HE2	1:h:528:LYS:HB3	1.88	0.41
1:i:429:SER:HB3	1:i:733:THR:HB	2.02	0.41
1:k:350:TYR:HE2	1:k:642:HIS:HD1	1.69	0.41
1:k:438:PRO:HD3	1:l:380:LEU:HG	2.03	0.41
1:l:284:PHE:CD2	1:l:315:PHE:HZ	2.38	0.41
1:l:288:ARG:HD3	1:l:363:CYS:CB	2.50	0.41
1:m:352:LEU:CD1	1:m:400:PHE:HE2	2.26	0.41
1:m:417:PHE:CE1	1:m:644:PRO:HD3	2.56	0.41
1:m:572:VAL:HB	1:m:575:GLU:HB3	2.03	0.41
1:n:352:LEU:HD21	1:n:400:PHE:HZ	1.80	0.41
1:n:517:LEU:HA	1:n:517:LEU:HD13	1.87	0.41
1:o:284:PHE:CD2	1:o:315:PHE:HZ	2.38	0.41
1:o:322:VAL:CG1	1:o:673:GLN:HE21	2.33	0.41
1:p:581:ALA:HA	1:p:593:THR:HG22	2.03	0.41
1:s:581:ALA:HA	1:s:593:THR:HG22	2.03	0.41
1:t:417:PHE:CE1	1:t:644:PRO:HD3	2.56	0.41
1:u:352:LEU:HD21	1:u:400:PHE:HZ	1.80	0.41
1:u:417:PHE:CE1	1:u:644:PRO:HD3	2.56	0.41
1:u:581:ALA:HA	1:u:593:THR:HG22	2.03	0.41
1:w:246:THR:CG2	1:w:371:VAL:HG22	2.50	0.41
1:w:309:ARG:HG2	1:w:310:PRO:O	2.21	0.41
1:y:286:PHE:CE1	1:y:619:TRP:HH2	2.38	0.41
1:y:380:LEU:HG	1:7:438:PRO:HD3	2.03	0.41
1:z:581:ALA:HA	1:z:593:THR:HG22	2.03	0.41
1:C:309:ARG:HG2	1:C:310:PRO:O	2.21	0.41
1:C:352:LEU:HD21	1:C:400:PHE:HZ	1.80	0.41
1:C:417:PHE:CE1	1:C:644:PRO:HD3	2.56	0.41
1:D:322:VAL:CG1	1:D:673:GLN:HE21	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:417:PHE:CE1	1:D:644:PRO:HD3	2.56	0.41
1:E:438:PRO:HD3	1:Q:380:LEU:HG	2.03	0.41
1:E:581:ALA:HA	1:E:593:THR:HG22	2.03	0.41
1:F:286:PHE:CE1	1:F:619:TRP:HH2	2.38	0.41
1:F:429:SER:HB3	1:F:733:THR:HB	2.02	0.41
1:F:517:LEU:HA	1:F:517:LEU:HD13	1.87	0.41
1:G:517:LEU:HD13	1:G:517:LEU:HA	1.87	0.41
1:H:286:PHE:CE1	1:H:619:TRP:HH2	2.38	0.41
1:H:380:LEU:HG	1:Y:438:PRO:HD3	2.03	0.41
1:I:352:LEU:CD1	1:I:400:PHE:HE2	2.26	0.41
1:I:433:ASP:O	1:I:476:ARG:NE	2.51	0.41
1:I:581:ALA:HA	1:I:593:THR:HG22	2.03	0.41
1:J:288:ARG:HD3	1:J:363:CYS:CB	2.50	0.41
1:J:438:PRO:HD3	1:L:380:LEU:HG	2.03	0.41
1:K:417:PHE:CE1	1:K:644:PRO:HD3	2.56	0.41
1:L:286:PHE:CE1	1:L:619:TRP:HH2	2.38	0.41
1:L:309:ARG:HG2	1:L:310:PRO:O	2.21	0.41
1:M:429:SER:HB3	1:M:733:THR:HB	2.02	0.41
1:N:581:ALA:HA	1:N:593:THR:HG22	2.03	0.41
1:O:286:PHE:CE1	1:O:619:TRP:HH2	2.38	0.41
1:O:379:TYR:HH	1:O:395:TYR:H	1.57	0.41
1:P:355:VAL:H	1:P:646:GLN:HE22	1.66	0.41
1:P:375:PRO:HA	1:Q:662:PHE:CD1	2.56	0.41
1:P:522:PRO:HB2	1:P:524:MET:CE	2.47	0.41
1:P:696:ASN:HB2	1:P:697:PRO:HD2	2.03	0.41
1:Q:246:THR:CG2	1:Q:371:VAL:HG22	2.50	0.41
1:Q:417:PHE:CE1	1:Q:644:PRO:HD3	2.56	0.41
1:Q:519:ASN:O	1:Q:520:PRO:C	2.63	0.41
1:R:246:THR:CG2	1:R:371:VAL:HG22	2.50	0.41
1:R:309:ARG:HG2	1:R:310:PRO:O	2.21	0.41
1:S:379:TYR:HH	1:S:395:TYR:H	1.59	0.41
1:T:429:SER:HB3	1:T:733:THR:HB	2.02	0.41
1:U:350:TYR:HE2	1:U:642:HIS:HD1	1.69	0.41
1:U:519:ASN:O	1:U:520:PRO:C	2.63	0.41
1:V:519:ASN:O	1:V:520:PRO:C	2.63	0.41
1:W:246:THR:CG2	1:W:371:VAL:HG22	2.50	0.41
1:W:288:ARG:HD3	1:W:363:CYS:CB	2.50	0.41
1:X:417:PHE:CE1	1:X:644:PRO:HD3	2.56	0.41
1:Y:352:LEU:CD1	1:Y:400:PHE:HE2	2.26	0.41
1:Y:696:ASN:HB2	1:Y:697:PRO:HD2	2.03	0.41
1:Z:350:TYR:HE2	1:Z:642:HIS:HD1	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:433:ASP:OD1	1:Z:433:ASP:N	2.51	0.41
1:Z:522:PRO:HB2	1:Z:524:MET:CE	2.47	0.41
1:2:429:SER:HB3	1:2:733:THR:HB	2.02	0.41
1:2:517:LEU:HA	1:2:517:LEU:HD13	1.87	0.41
1:3:417:PHE:CE1	1:3:644:PRO:HD3	2.56	0.41
1:4:350:TYR:HE2	1:4:642:HIS:HD1	1.69	0.41
1:4:519:ASN:O	1:4:520:PRO:C	2.63	0.41
1:5:286:PHE:CE1	1:5:619:TRP:HH2	2.38	0.41
1:5:309:ARG:HG2	1:5:310:PRO:O	2.21	0.41
1:5:732:LEU:HD23	1:5:732:LEU:HA	1.93	0.41
1:6:436:MET:CE	1:6:471:MET:HG2	2.27	0.41
1:6:662:PHE:CD1	1:t:375:PRO:HA	2.56	0.41
1:a:260:ILE:N	1:a:276:GLY:O	2.32	0.41
1:a:519:ASN:O	1:a:520:PRO:C	2.63	0.41
1:a:581:ALA:HA	1:a:593:THR:HG22	2.03	0.41
1:a:655:PRO:HG3	1:e:248:ALA:HB2	2.03	0.41
1:b:572:VAL:HB	1:b:575:GLU:HB3	2.02	0.41
1:b:713:PHE:O	1:e:695:TRP:NE1	2.54	0.41
1:c:246:THR:CG2	1:c:371:VAL:HG22	2.50	0.41
1:c:380:LEU:HG	1:e:438:PRO:HD3	2.03	0.41
1:d:429:SER:HB3	1:d:733:THR:HB	2.02	0.41
1:e:417:PHE:CE1	1:e:644:PRO:HD3	2.56	0.41
1:f:246:THR:CG2	1:f:371:VAL:HG22	2.50	0.41
1:f:309:ARG:HG2	1:f:310:PRO:O	2.21	0.41
1:g:284:PHE:CD2	1:g:315:PHE:HZ	2.38	0.41
1:g:417:PHE:CE1	1:g:644:PRO:HD3	2.56	0.41
1:h:246:THR:CG2	1:h:371:VAL:HG22	2.50	0.41
1:h:519:ASN:O	1:h:520:PRO:C	2.63	0.41
1:i:309:ARG:HG2	1:i:310:PRO:O	2.21	0.41
1:i:519:ASN:O	1:i:520:PRO:C	2.63	0.41
1:j:350:TYR:HE2	1:j:642:HIS:HD1	1.69	0.41
1:k:286:PHE:CE1	1:k:619:TRP:HH2	2.38	0.41
1:k:380:LEU:HG	1:m:438:PRO:HD3	2.03	0.41
1:m:696:ASN:HB2	1:m:697:PRO:HD2	2.03	0.41
1:n:438:PRO:HD3	1:o:380:LEU:HG	2.03	0.41
1:o:286:PHE:CE1	1:o:619:TRP:HH2	2.38	0.41
1:o:309:ARG:HG2	1:o:310:PRO:O	2.21	0.41
1:o:350:TYR:HE2	1:o:642:HIS:HD1	1.69	0.41
1:o:417:PHE:CE1	1:o:644:PRO:HD3	2.56	0.41
1:p:429:SER:HB3	1:p:733:THR:HB	2.02	0.41
1:q:417:PHE:CE1	1:q:644:PRO:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:284:PHE:CD2	1:r:315:PHE:HZ	2.38	0.41
1:r:517:LEU:HD13	1:r:517:LEU:HA	1.87	0.41
1:s:246:THR:CG2	1:s:371:VAL:HG22	2.50	0.41
1:s:433:ASP:O	1:s:476:ARG:NE	2.51	0.41
1:t:309:ARG:HG2	1:t:310:PRO:O	2.21	0.41
1:t:350:TYR:HE2	1:t:642:HIS:HD1	1.69	0.41
1:t:429:SER:HB3	1:t:733:THR:HB	2.02	0.41
1:t:572:VAL:HB	1:t:575:GLU:HB3	2.03	0.41
1:t:696:ASN:HB2	1:t:697:PRO:HD2	2.03	0.41
1:u:309:ARG:HG2	1:u:310:PRO:O	2.21	0.41
1:u:438:PRO:HD3	1:v:380:LEU:HG	2.02	0.41
1:u:572:VAL:HB	1:u:575:GLU:HB3	2.03	0.41
1:v:355:VAL:H	1:v:646:GLN:HE22	1.67	0.41
1:v:375:PRO:HA	1:w:662:PHE:CD1	2.56	0.41
1:v:429:SER:HB3	1:v:733:THR:HB	2.02	0.41
1:w:380:LEU:HG	1:x:438:PRO:HD3	2.03	0.41
1:w:519:ASN:O	1:w:520:PRO:C	2.63	0.41
1:w:572:VAL:HB	1:w:575:GLU:HB3	2.02	0.41
1:w:696:ASN:HB2	1:w:697:PRO:HD2	2.03	0.41
1:x:352:LEU:CD1	1:x:400:PHE:HE2	2.26	0.41
1:x:417:PHE:CE1	1:x:644:PRO:HD3	2.56	0.41
1:y:417:PHE:CE1	1:y:644:PRO:HD3	2.56	0.41
1:y:433:ASP:O	1:y:476:ARG:NE	2.51	0.41
1:7:309:ARG:HG2	1:7:310:PRO:O	2.21	0.41
1:7:417:PHE:CE1	1:7:644:PRO:HD3	2.56	0.41
1:7:429:SER:HB3	1:7:733:THR:HB	2.02	0.41
1:8:309:ARG:HG2	1:8:310:PRO:O	2.21	0.41
1:8:417:PHE:CE1	1:8:644:PRO:HD3	2.56	0.41
1:8:519:ASN:O	1:8:520:PRO:C	2.63	0.41
1:B:429:SER:HB3	1:B:733:THR:HB	2.02	0.41
1:C:696:ASN:HB2	1:C:697:PRO:HD2	2.03	0.41
1:D:352:LEU:HD21	1:D:400:PHE:HZ	1.80	0.41
1:E:355:VAL:H	1:E:646:GLN:HE22	1.67	0.41
1:E:417:PHE:CE1	1:E:644:PRO:HD3	2.56	0.41
1:G:309:ARG:HG2	1:G:310:PRO:O	2.21	0.41
1:G:375:PRO:HA	1:W:662:PHE:CD1	2.56	0.41
1:G:429:SER:HB3	1:G:733:THR:HB	2.02	0.41
1:K:433:ASP:O	1:K:476:ARG:NE	2.51	0.41
1:L:350:TYR:HE2	1:L:642:HIS:HD1	1.69	0.41
1:M:309:ARG:HG2	1:M:310:PRO:O	2.21	0.41
1:M:375:PRO:HA	1:N:662:PHE:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:417:PHE:CE1	1:M:644:PRO:HD3	2.56	0.41
1:M:696:ASN:HB2	1:M:697:PRO:HD2	2.03	0.41
1:P:522:PRO:HD2	1:P:524:MET:HE3	2.02	0.41
1:Q:522:PRO:HD2	1:Q:524:MET:HE3	2.02	0.41
1:Q:572:VAL:HB	1:Q:575:GLU:HB3	2.03	0.41
1:R:522:PRO:HD2	1:R:524:MET:HE3	2.02	0.41
1:S:322:VAL:CG1	1:S:673:GLN:HE21	2.33	0.41
1:S:350:TYR:HE2	1:S:642:HIS:HD1	1.69	0.41
1:T:350:TYR:HE2	1:T:642:HIS:HD1	1.69	0.41
1:U:417:PHE:CE1	1:U:644:PRO:HD3	2.56	0.41
1:V:246:THR:CG2	1:V:371:VAL:HG22	2.50	0.41
1:X:284:PHE:CD2	1:X:315:PHE:HZ	2.38	0.41
1:2:581:ALA:HA	1:2:593:THR:HG22	2.03	0.41
1:3:581:ALA:HA	1:3:593:THR:HG22	2.03	0.41
1:5:379:TYR:HH	1:5:395:TYR:H	1.57	0.41
1:6:246:THR:CG2	1:6:371:VAL:HG22	2.50	0.41
1:6:581:ALA:HA	1:6:593:THR:HG22	2.03	0.41
1:b:322:VAL:CG1	1:b:673:GLN:HE21	2.33	0.41
1:b:696:ASN:HB2	1:b:697:PRO:HD2	2.03	0.41
1:c:417:PHE:CE1	1:c:644:PRO:HD3	2.56	0.41
1:c:522:PRO:HD2	1:c:524:MET:HE3	2.02	0.41
1:c:572:VAL:HB	1:c:575:GLU:HB3	2.03	0.41
1:e:355:VAL:H	1:e:646:GLN:HE22	1.66	0.41
1:h:322:VAL:CG1	1:h:673:GLN:HE21	2.33	0.41
1:i:696:ASN:HB2	1:i:697:PRO:HD2	2.04	0.41
1:m:286:PHE:CE1	1:m:619:TRP:HH2	2.38	0.41
1:n:288:ARG:HD3	1:n:363:CYS:CB	2.50	0.41
1:n:572:VAL:HB	1:n:575:GLU:HB3	2.03	0.41
1:o:572:VAL:HB	1:o:575:GLU:HB3	2.03	0.41
1:q:309:ARG:HG2	1:q:310:PRO:O	2.21	0.41
1:r:309:ARG:HG2	1:r:310:PRO:O	2.21	0.41
1:u:696:ASN:HB2	1:u:697:PRO:HD2	2.03	0.41
1:w:284:PHE:CD2	1:w:315:PHE:HZ	2.38	0.41
1:y:246:THR:CG2	1:y:371:VAL:HG22	2.50	0.41
1:z:417:PHE:CE1	1:z:644:PRO:HD3	2.56	0.41
1:7:519:ASN:O	1:7:520:PRO:C	2.63	0.41
1:A:309:ARG:HG2	1:A:310:PRO:O	2.21	0.40
1:D:581:ALA:HA	1:D:593:THR:HG22	2.03	0.40
1:E:696:ASN:HB2	1:E:697:PRO:HD2	2.03	0.40
1:J:309:ARG:HG2	1:J:310:PRO:O	2.21	0.40
1:J:572:VAL:HB	1:J:575:GLU:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:572:VAL:HB	1:K:575:GLU:HB3	2.02	0.40
1:L:572:VAL:HB	1:L:575:GLU:HB3	2.03	0.40
1:M:350:TYR:HE2	1:M:642:HIS:HD1	1.69	0.40
1:O:350:TYR:HE2	1:O:642:HIS:HD1	1.69	0.40
1:O:380:LEU:HG	1:h:438:PRO:HD3	2.03	0.40
1:O:438:PRO:HD3	1:g:380:LEU:HG	2.03	0.40
1:O:522:PRO:HD2	1:O:524:MET:HE3	2.02	0.40
1:P:322:VAL:CG1	1:P:673:GLN:HE21	2.33	0.40
1:T:322:VAL:CG1	1:T:673:GLN:HE21	2.33	0.40
1:T:379:TYR:HH	1:T:395:TYR:H	1.59	0.40
1:V:322:VAL:CG1	1:V:673:GLN:HE21	2.33	0.40
1:W:519:ASN:O	1:W:520:PRO:C	2.63	0.40
1:X:380:LEU:HG	1:5:438:PRO:HD3	2.03	0.40
1:Y:286:PHE:CE1	1:Y:619:TRP:HH2	2.38	0.40
1:1:417:PHE:CE1	1:1:644:PRO:HD3	2.56	0.40
1:2:355:VAL:H	1:2:646:GLN:HE22	1.66	0.40
1:2:375:PRO:HA	1:i:662:PHE:CD1	2.56	0.40
1:3:438:PRO:HD3	1:i:380:LEU:HG	2.03	0.40
1:4:417:PHE:CE1	1:4:644:PRO:HD3	2.56	0.40
1:a:696:ASN:HB2	1:a:697:PRO:HD2	2.03	0.40
1:b:355:VAL:H	1:b:646:GLN:HE22	1.66	0.40
1:b:522:PRO:HD2	1:b:524:MET:HE3	2.02	0.40
1:d:429:SER:N	1:d:734:ARG:O	2.43	0.40
1:f:322:VAL:CG1	1:f:673:GLN:HE21	2.33	0.40
1:f:522:PRO:HD2	1:f:524:MET:HE3	2.02	0.40
1:i:284:PHE:CD2	1:i:315:PHE:HZ	2.38	0.40
1:k:572:VAL:HB	1:k:575:GLU:HB3	2.02	0.40
1:l:519:ASN:O	1:l:520:PRO:C	2.63	0.40
1:p:355:VAL:H	1:p:646:GLN:HE22	1.66	0.40
1:r:429:SER:HB3	1:r:733:THR:HB	2.02	0.40
1:r:696:ASN:HB2	1:r:697:PRO:HD2	2.03	0.40
1:t:522:PRO:HB2	1:t:524:MET:CE	2.47	0.40
1:x:581:ALA:HA	1:x:593:THR:HG22	2.03	0.40
1:y:572:VAL:HB	1:y:575:GLU:HB3	2.02	0.40
1:A:380:LEU:HG	1:I:438:PRO:HD3	2.03	0.40
1:B:355:VAL:H	1:B:646:GLN:HE22	1.66	0.40
1:B:696:ASN:HB2	1:B:697:PRO:HD2	2.04	0.40
1:D:352:LEU:CD1	1:D:400:PHE:HE2	2.26	0.40
1:H:572:VAL:HB	1:H:575:GLU:HB3	2.02	0.40
1:H:581:ALA:HA	1:H:593:THR:HG22	2.03	0.40
1:I:309:ARG:HG2	1:I:310:PRO:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:355:VAL:H	1:J:646:GLN:HE22	1.67	0.40
1:J:417:PHE:CE1	1:J:644:PRO:HD3	2.56	0.40
1:K:246:THR:CG2	1:K:371:VAL:HG22	2.50	0.40
1:K:662:PHE:CD1	1:7:375:PRO:HA	2.56	0.40
1:N:246:THR:CG2	1:N:371:VAL:HG22	2.50	0.40
1:N:309:ARG:HG2	1:N:310:PRO:O	2.21	0.40
1:O:352:LEU:CD1	1:O:400:PHE:HE2	2.26	0.40
1:U:309:ARG:HG2	1:U:310:PRO:O	2.21	0.40
1:U:522:PRO:HD2	1:U:524:MET:HE3	2.02	0.40
1:U:696:ASN:HB2	1:U:697:PRO:HD2	2.03	0.40
1:X:517:LEU:HD13	1:X:517:LEU:HA	1.87	0.40
1:Y:309:ARG:HG2	1:Y:310:PRO:O	2.21	0.40
1:1:309:ARG:HG2	1:1:310:PRO:O	2.21	0.40
1:1:322:VAL:CG1	1:1:673:GLN:HE21	2.33	0.40
1:1:517:LEU:HD13	1:1:517:LEU:HA	1.87	0.40
1:2:309:ARG:HG2	1:2:310:PRO:O	2.21	0.40
1:4:696:ASN:HB2	1:4:697:PRO:HD2	2.03	0.40
1:5:350:TYR:HE2	1:5:642:HIS:HD1	1.69	0.40
1:5:517:LEU:HD13	1:5:517:LEU:HA	1.87	0.40
1:5:522:PRO:HD2	1:5:524:MET:HE3	2.02	0.40
1:5:696:ASN:HB2	1:5:697:PRO:HD2	2.03	0.40
1:6:309:ARG:HG2	1:6:310:PRO:O	2.21	0.40
1:e:433:ASP:O	1:e:476:ARG:NE	2.51	0.40
1:e:522:PRO:HD2	1:e:524:MET:HE3	2.02	0.40
1:e:696:ASN:HB2	1:e:697:PRO:HD2	2.03	0.40
1:f:417:PHE:CE1	1:f:644:PRO:HD3	2.56	0.40
1:g:322:VAL:CG1	1:g:673:GLN:HE21	2.33	0.40
1:i:572:VAL:HB	1:i:575:GLU:HB3	2.03	0.40
1:k:417:PHE:CE1	1:k:644:PRO:HD3	2.56	0.40
1:l:662:PHE:CD1	1:r:375:PRO:HA	2.56	0.40
1:n:309:ARG:HG2	1:n:310:PRO:O	2.21	0.40
1:n:417:PHE:CE1	1:n:644:PRO:HD3	2.56	0.40
1:p:284:PHE:CD2	1:p:315:PHE:HZ	2.38	0.40
1:p:519:ASN:O	1:p:520:PRO:C	2.63	0.40
1:p:696:ASN:HB2	1:p:697:PRO:HD2	2.03	0.40
1:q:572:VAL:HB	1:q:575:GLU:HB3	2.02	0.40
1:r:520:PRO:HG3	1:r:541:LEU:CD2	2.50	0.40
1:v:309:ARG:HG2	1:v:310:PRO:O	2.21	0.40
1:v:352:LEU:CD1	1:v:400:PHE:HE2	2.26	0.40
1:v:581:ALA:HA	1:v:593:THR:HG22	2.03	0.40
1:y:662:PHE:CD1	1:8:375:PRO:HA	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:309:ARG:HG2	1:z:310:PRO:O	2.21	0.40
1:z:322:VAL:CG1	1:z:673:GLN:HE21	2.33	0.40
1:B:284:PHE:CD2	1:B:315:PHE:HZ	2.38	0.40
1:C:662:PHE:CD1	1:D:375:PRO:HA	2.56	0.40
1:D:696:ASN:HB2	1:D:697:PRO:HD2	2.03	0.40
1:E:433:ASP:O	1:E:476:ARG:NE	2.51	0.40
1:E:695:TRP:NE1	1:P:713:PHE:O	2.55	0.40
1:G:417:PHE:CE1	1:G:644:PRO:HD3	2.56	0.40
1:G:696:ASN:HB2	1:G:697:PRO:HD2	2.03	0.40
1:H:417:PHE:CE1	1:H:644:PRO:HD3	2.56	0.40
1:K:352:LEU:HD21	1:K:400:PHE:HZ	1.80	0.40
1:M:522:PRO:HB2	1:M:524:MET:CE	2.47	0.40
1:N:429:SER:N	1:N:734:ARG:O	2.43	0.40
1:O:696:ASN:HB2	1:O:697:PRO:HD2	2.03	0.40
1:Q:517:LEU:HA	1:Q:517:LEU:HD13	1.87	0.40
1:R:322:VAL:CG1	1:R:673:GLN:HE21	2.33	0.40
1:R:417:PHE:CE1	1:R:644:PRO:HD3	2.56	0.40
1:V:438:PRO:HD3	1:5:380:LEU:HG	2.03	0.40
1:V:696:ASN:HB2	1:V:697:PRO:HD2	2.03	0.40
1:W:417:PHE:CE1	1:W:644:PRO:HD3	2.56	0.40
1:X:322:VAL:CG1	1:X:673:GLN:HE21	2.33	0.40
1:Z:732:LEU:HD23	1:Z:732:LEU:HA	1.93	0.40
1:3:519:ASN:O	1:3:520:PRO:C	2.63	0.40
1:4:309:ARG:HG2	1:4:310:PRO:O	2.21	0.40
1:4:522:PRO:HD2	1:4:524:MET:HE3	2.02	0.40
1:5:352:LEU:CD1	1:5:400:PHE:HE2	2.26	0.40
1:b:350:TYR:HE2	1:b:642:HIS:HD1	1.69	0.40
1:d:528:LYS:HB3	1:d:528:LYS:HE2	1.88	0.40
1:d:581:ALA:HA	1:d:593:THR:HG22	2.03	0.40
1:g:309:ARG:HG2	1:g:310:PRO:O	2.21	0.40
1:h:309:ARG:HG2	1:h:310:PRO:O	2.21	0.40
1:j:309:ARG:HG2	1:j:310:PRO:O	2.21	0.40
1:k:581:ALA:HA	1:k:593:THR:HG22	2.03	0.40
1:l:355:VAL:H	1:l:646:GLN:HE22	1.67	0.40
1:l:417:PHE:CE1	1:l:644:PRO:HD3	2.56	0.40
1:r:417:PHE:CE1	1:r:644:PRO:HD3	2.56	0.40
1:s:309:ARG:HG2	1:s:310:PRO:O	2.21	0.40
1:v:417:PHE:CE1	1:v:644:PRO:HD3	2.56	0.40
1:v:572:VAL:HB	1:v:575:GLU:HB3	2.03	0.40
1:x:519:ASN:O	1:x:520:PRO:C	2.63	0.40
1:A:375:PRO:HA	1:E:662:PHE:CD1	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:519:ASN:O	1:B:520:PRO:C	2.63	0.40
1:D:309:ARG:HG2	1:D:310:PRO:O	2.21	0.40
1:D:429:SER:N	1:D:734:ARG:O	2.43	0.40
1:D:655:PRO:HG3	1:E:248:ALA:HB2	2.04	0.40
1:E:522:PRO:HD2	1:E:524:MET:HE3	2.02	0.40
1:F:400:PHE:HE1	1:Q:693:LYS:HG3	1.87	0.40
1:F:522:PRO:HD2	1:F:524:MET:HE3	2.02	0.40
1:F:581:ALA:HA	1:F:593:THR:HG22	2.03	0.40
1:G:520:PRO:HG3	1:G:541:LEU:CD2	2.50	0.40
1:H:375:PRO:HA	1:I:662:PHE:CD1	2.56	0.40
1:I:375:PRO:HA	1:J:662:PHE:CD1	2.57	0.40
1:K:375:PRO:HA	1:L:662:PHE:CD1	2.57	0.40
1:K:517:LEU:HA	1:K:517:LEU:HD13	1.87	0.40
1:K:696:ASN:HB2	1:K:697:PRO:HD2	2.03	0.40
1:N:713:PHE:O	1:O:695:TRP:NE1	2.55	0.40
1:P:248:ALA:HB2	1:Q:655:PRO:HG3	2.04	0.40
1:U:695:TRP:NE1	1:V:713:PHE:O	2.55	0.40
1:V:309:ARG:HG2	1:V:310:PRO:O	2.21	0.40
1:V:528:LYS:HE2	1:V:528:LYS:HB3	1.88	0.40
1:W:309:ARG:HG2	1:W:310:PRO:O	2.21	0.40
1:W:350:TYR:HE2	1:W:642:HIS:HD1	1.69	0.40
1:Z:309:ARG:HG2	1:Z:310:PRO:O	2.21	0.40
1:1:438:PRO:HD3	1:8:380:LEU:HG	2.03	0.40
1:2:417:PHE:CE1	1:2:644:PRO:HD3	2.56	0.40
1:2:572:VAL:HB	1:2:575:GLU:HB3	2.03	0.40
1:3:309:ARG:HG2	1:3:310:PRO:O	2.21	0.40
1:3:522:PRO:HD2	1:3:524:MET:HE3	2.02	0.40
1:4:355:VAL:H	1:4:646:GLN:HE22	1.66	0.40
1:4:517:LEU:HD13	1:4:517:LEU:HA	1.87	0.40
1:4:695:TRP:NE1	1:h:713:PHE:O	2.55	0.40
1:6:429:SER:N	1:6:734:ARG:O	2.43	0.40
1:6:655:PRO:HG3	1:t:248:ALA:HB2	2.03	0.40
1:a:248:ALA:HB2	1:u:655:PRO:HG3	2.03	0.40
1:a:309:ARG:HG2	1:a:310:PRO:O	2.21	0.40
1:a:352:LEU:HD21	1:a:400:PHE:HZ	1.80	0.40
1:a:375:PRO:HA	1:u:662:PHE:CD1	2.56	0.40
1:b:309:ARG:HG2	1:b:310:PRO:O	2.21	0.40
1:b:581:ALA:HA	1:b:593:THR:HG22	2.03	0.40
1:d:417:PHE:CE1	1:d:644:PRO:HD3	2.56	0.40
1:d:522:PRO:HD2	1:d:524:MET:HE3	2.02	0.40
1:e:309:ARG:HG2	1:e:310:PRO:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:572:VAL:HB	1:e:575:GLU:HB3	2.02	0.40
1:f:517:LEU:HA	1:f:517:LEU:HD13	1.87	0.40
1:h:696:ASN:HB2	1:h:697:PRO:HD2	2.03	0.40
1:l:309:ARG:HG2	1:l:310:PRO:O	2.21	0.40
1:m:309:ARG:HG2	1:m:310:PRO:O	2.21	0.40
1:n:355:VAL:H	1:n:646:GLN:HE22	1.66	0.40
1:n:662:PHE:CD1	1:s:375:PRO:HA	2.57	0.40
1:o:662:PHE:CD1	1:y:375:PRO:HA	2.57	0.40
1:o:713:PHE:O	1:u:695:TRP:NE1	2.54	0.40
1:s:519:ASN:O	1:s:520:PRO:C	2.63	0.40
1:u:350:TYR:HE2	1:u:642:HIS:HD1	1.69	0.40
1:x:309:ARG:HG2	1:x:310:PRO:O	2.21	0.40
1:x:522:PRO:HD2	1:x:524:MET:HE3	2.02	0.40
1:y:696:ASN:HB2	1:y:697:PRO:HD2	2.03	0.40
1:7:522:PRO:HD2	1:7:524:MET:HE3	2.02	0.40
1:7:696:ASN:HB2	1:7:697:PRO:HD2	2.03	0.40
1:8:522:PRO:HD2	1:8:524:MET:HE3	2.02	0.40
1:A:572:VAL:HB	1:A:575:GLU:HB3	2.03	0.40
1:B:309:ARG:HG2	1:B:310:PRO:O	2.21	0.40
1:C:438:PRO:HD3	1:2:380:LEU:HG	2.03	0.40
1:C:619:TRP:CD1	1:C:619:TRP:C	3.00	0.40
1:C:655:PRO:HG3	1:D:248:ALA:HB2	2.04	0.40
1:C:695:TRP:NE1	1:L:713:PHE:O	2.55	0.40
1:E:309:ARG:HG2	1:E:310:PRO:O	2.21	0.40
1:E:572:VAL:HB	1:E:575:GLU:HB3	2.03	0.40
1:F:417:PHE:CE1	1:F:644:PRO:HD3	2.56	0.40
1:H:309:ARG:HG2	1:H:310:PRO:O	2.21	0.40
1:I:519:ASN:O	1:I:520:PRO:C	2.63	0.40
1:N:286:PHE:CE1	1:N:619:TRP:HH2	2.38	0.40
1:N:322:VAL:CG1	1:N:673:GLN:HE21	2.33	0.40
1:P:309:ARG:HG2	1:P:310:PRO:O	2.21	0.40
1:P:581:ALA:HA	1:P:593:THR:HG22	2.03	0.40
1:S:294:SER:CB	1:4:399:TYR:CZ	2.87	0.40
1:S:309:ARG:HG2	1:S:310:PRO:O	2.21	0.40
1:T:294:SER:CB	1:U:399:TYR:CZ	2.87	0.40
1:T:309:ARG:HG2	1:T:310:PRO:O	2.21	0.40
1:U:248:ALA:HB2	1:5:655:PRO:HG3	2.04	0.40
1:X:309:ARG:HG2	1:X:310:PRO:O	2.21	0.40
1:Z:572:VAL:HB	1:Z:575:GLU:HB3	2.03	0.40
1:1:695:TRP:NE1	1:w:713:PHE:O	2.54	0.40
1:4:528:LYS:HB3	1:4:528:LYS:HE2	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:695:TRP:NE1	1:6:713:PHE:O	2.55	0.40
1:6:286:PHE:CE1	1:6:619:TRP:HH2	2.38	0.40
1:b:248:ALA:HB2	1:c:655:PRO:HG3	2.04	0.40
1:c:438:PRO:HD3	1:d:380:LEU:HG	2.04	0.40
1:i:375:PRO:HA	1:7:662:PHE:CD1	2.57	0.40
1:i:417:PHE:CE1	1:i:644:PRO:HD3	2.56	0.40
1:k:375:PRO:HA	1:s:662:PHE:CD1	2.56	0.40
1:l:350:TYR:HE2	1:l:642:HIS:HD1	1.69	0.40
1:l:438:PRO:HD3	1:m:380:LEU:HG	2.03	0.40
1:o:248:ALA:HB2	1:v:655:PRO:HG3	2.04	0.40
1:o:519:ASN:O	1:o:520:PRO:C	2.63	0.40
1:p:522:PRO:HD2	1:p:524:MET:HE3	2.02	0.40
1:u:429:SER:HB3	1:u:733:THR:HB	2.02	0.40
1:z:438:PRO:HD3	1:7:380:LEU:HG	2.03	0.40
1:8:696:ASN:HB2	1:8:697:PRO:HD2	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	2	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	3	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	4	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	5	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	6	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	7	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	8	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	B	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	C	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	D	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	E	516/518 (100%)	504 (98%)	11 (2%)	1 (0%)	44	71
1	F	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	G	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	H	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	I	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	J	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	K	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	L	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	M	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	N	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	O	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	P	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	Q	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	R	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	S	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	T	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	U	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	V	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	W	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	X	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	Y	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	Z	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	a	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	b	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	c	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	d	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	e	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	f	516/518 (100%)	504 (98%)	11 (2%)	1 (0%)	44	71
1	g	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	h	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	i	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	j	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	k	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	l	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	m	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	n	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	o	516/518 (100%)	504 (98%)	11 (2%)	1 (0%)	44	71
1	p	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	q	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	r	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	s	516/518 (100%)	504 (98%)	11 (2%)	1 (0%)	44	71
1	t	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	u	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	v	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	w	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	x	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	y	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
1	z	516/518 (100%)	503 (98%)	12 (2%)	1 (0%)	44	71
All	All	30960/31080 (100%)	30184 (98%)	716 (2%)	60 (0%)	45	71

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	520	PRO
1	B	520	PRO
1	C	520	PRO
1	D	520	PRO
1	E	520	PRO
1	F	520	PRO
1	G	520	PRO
1	H	520	PRO
1	I	520	PRO

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Mol	Chain	Res	Type
1	J	520	PRO
1	K	520	PRO
1	L	520	PRO
1	M	520	PRO
1	N	520	PRO
1	O	520	PRO
1	P	520	PRO
1	Q	520	PRO
1	R	520	PRO
1	S	520	PRO
1	T	520	PRO
1	U	520	PRO
1	V	520	PRO
1	W	520	PRO
1	X	520	PRO
1	Y	520	PRO
1	Z	520	PRO
1	1	520	PRO
1	2	520	PRO
1	3	520	PRO
1	4	520	PRO
1	5	520	PRO
1	6	520	PRO
1	a	520	PRO
1	b	520	PRO
1	c	520	PRO
1	d	520	PRO
1	e	520	PRO
1	f	520	PRO
1	g	520	PRO
1	h	520	PRO
1	i	520	PRO
1	j	520	PRO
1	k	520	PRO
1	l	520	PRO
1	m	520	PRO
1	n	520	PRO
1	o	520	PRO
1	p	520	PRO
1	q	520	PRO
1	r	520	PRO
1	s	520	PRO

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Mol	Chain	Res	Type
1	t	520	PRO
1	u	520	PRO
1	v	520	PRO
1	w	520	PRO
1	x	520	PRO
1	y	520	PRO
1	z	520	PRO
1	7	520	PRO
1	8	520	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	2	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	3	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	4	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	5	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	6	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	7	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	8	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	A	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	B	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	C	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	D	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	E	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	F	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	G	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	H	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	I	453/453 (100%)	451 (100%)	2 (0%)	89	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	K	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	L	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	M	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	N	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	O	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	P	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	Q	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	R	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	S	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	T	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	U	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	V	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	W	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	X	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	Y	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	Z	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	a	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	b	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	c	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	d	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	e	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	f	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	g	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	h	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	i	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	j	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	k	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	l	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	m	453/453 (100%)	451 (100%)	2 (0%)	89	96
1	n	453/453 (100%)	451 (100%)	2 (0%)	89	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	o	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	p	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	q	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	r	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	s	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	t	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	u	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	v	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	w	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	x	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	y	453/453 (100%)	451 (100%)	2 (0%)	89 96
1	z	453/453 (100%)	451 (100%)	2 (0%)	89 96
All	All	27180/27180 (100%)	27060 (100%)	120 (0%)	88 96

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	239	VAL
1	A	400	PHE
1	B	239	VAL
1	B	400	PHE
1	C	239	VAL
1	C	400	PHE
1	D	239	VAL
1	D	400	PHE
1	E	239	VAL
1	E	400	PHE
1	F	239	VAL
1	F	400	PHE
1	G	239	VAL
1	G	400	PHE
1	H	239	VAL
1	H	400	PHE
1	I	239	VAL
1	I	400	PHE
1	J	239	VAL
1	J	400	PHE
1	K	239	VAL

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Mol	Chain	Res	Type
1	K	400	PHE
1	L	239	VAL
1	L	400	PHE
1	M	239	VAL
1	M	400	PHE
1	N	239	VAL
1	N	400	PHE
1	O	239	VAL
1	O	400	PHE
1	P	239	VAL
1	P	400	PHE
1	Q	239	VAL
1	Q	400	PHE
1	R	239	VAL
1	R	400	PHE
1	S	239	VAL
1	S	400	PHE
1	T	239	VAL
1	T	400	PHE
1	U	239	VAL
1	U	400	PHE
1	V	239	VAL
1	V	400	PHE
1	W	239	VAL
1	W	400	PHE
1	X	239	VAL
1	X	400	PHE
1	Y	239	VAL
1	Y	400	PHE
1	Z	239	VAL
1	Z	400	PHE
1	1	239	VAL
1	1	400	PHE
1	2	239	VAL
1	2	400	PHE
1	3	239	VAL
1	3	400	PHE
1	4	239	VAL
1	4	400	PHE
1	5	239	VAL
1	5	400	PHE
1	6	239	VAL

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Mol	Chain	Res	Type
1	6	400	PHE
1	a	239	VAL
1	a	400	PHE
1	b	239	VAL
1	b	400	PHE
1	c	239	VAL
1	c	400	PHE
1	d	239	VAL
1	d	400	PHE
1	e	239	VAL
1	e	400	PHE
1	f	239	VAL
1	f	400	PHE
1	g	239	VAL
1	g	400	PHE
1	h	239	VAL
1	h	400	PHE
1	i	239	VAL
1	i	400	PHE
1	j	239	VAL
1	j	400	PHE
1	k	239	VAL
1	k	400	PHE
1	l	239	VAL
1	l	400	PHE
1	m	239	VAL
1	m	400	PHE
1	n	239	VAL
1	n	400	PHE
1	o	239	VAL
1	o	400	PHE
1	p	239	VAL
1	p	400	PHE
1	q	239	VAL
1	q	400	PHE
1	r	239	VAL
1	r	400	PHE
1	s	239	VAL
1	s	400	PHE
1	t	239	VAL
1	t	400	PHE
1	u	239	VAL

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Mol	Chain	Res	Type
1	u	400	PHE
1	v	239	VAL
1	v	400	PHE
1	w	239	VAL
1	w	400	PHE
1	x	239	VAL
1	x	400	PHE
1	y	239	VAL
1	y	400	PHE
1	z	239	VAL
1	z	400	PHE
1	7	239	VAL
1	7	400	PHE
1	8	239	VAL
1	8	400	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1031) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	253	ASN
1	A	255	HIS
1	A	290	HIS
1	A	292	HIS
1	A	305	ASN
1	A	321	GLN
1	A	343	GLN
1	A	458	GLN
1	A	527	HIS
1	A	579	GLN
1	A	597	GLN
1	A	624	HIS
1	A	646	GLN
1	A	673	GLN
1	A	691	ASN
1	A	700	GLN
1	B	253	ASN
1	B	255	HIS
1	B	290	HIS
1	B	292	HIS
1	B	305	ASN
1	B	321	GLN
1	B	343	GLN

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Mol	Chain	Res	Type
1	B	458	GLN
1	B	527	HIS
1	B	579	GLN
1	B	597	GLN
1	B	624	HIS
1	B	646	GLN
1	B	673	GLN
1	B	691	ASN
1	B	700	GLN
1	C	253	ASN
1	C	255	HIS
1	C	290	HIS
1	C	292	HIS
1	C	305	ASN
1	C	442	GLN
1	C	458	GLN
1	C	459	GLN
1	C	527	HIS
1	C	579	GLN
1	C	597	GLN
1	C	624	HIS
1	C	646	GLN
1	C	673	GLN
1	C	691	ASN
1	C	700	GLN
1	C	735	ASN
1	D	253	ASN
1	D	255	HIS
1	D	290	HIS
1	D	292	HIS
1	D	305	ASN
1	D	321	GLN
1	D	458	GLN
1	D	527	HIS
1	D	579	GLN
1	D	597	GLN
1	D	624	HIS
1	D	646	GLN
1	D	673	GLN
1	D	691	ASN
1	D	700	GLN
1	D	735	ASN

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Mol	Chain	Res	Type
1	E	253	ASN
1	E	255	HIS
1	E	290	HIS
1	E	292	HIS
1	E	305	ASN
1	E	321	GLN
1	E	343	GLN
1	E	442	GLN
1	E	458	GLN
1	E	459	GLN
1	E	527	HIS
1	E	579	GLN
1	E	597	GLN
1	E	624	HIS
1	E	646	GLN
1	E	673	GLN
1	E	691	ASN
1	E	700	GLN
1	E	735	ASN
1	F	255	HIS
1	F	290	HIS
1	F	292	HIS
1	F	305	ASN
1	F	321	GLN
1	F	343	GLN
1	F	458	GLN
1	F	527	HIS
1	F	579	GLN
1	F	597	GLN
1	F	624	HIS
1	F	646	GLN
1	F	673	GLN
1	F	691	ASN
1	F	700	GLN
1	F	735	ASN
1	G	253	ASN
1	G	255	HIS
1	G	290	HIS
1	G	292	HIS
1	G	305	ASN
1	G	321	GLN
1	G	442	GLN

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Mol	Chain	Res	Type
1	G	458	GLN
1	G	459	GLN
1	G	527	HIS
1	G	579	GLN
1	G	597	GLN
1	G	624	HIS
1	G	646	GLN
1	G	673	GLN
1	G	691	ASN
1	G	700	GLN
1	G	735	ASN
1	H	253	ASN
1	H	255	HIS
1	H	290	HIS
1	H	292	HIS
1	H	305	ASN
1	H	321	GLN
1	H	343	GLN
1	H	458	GLN
1	H	527	HIS
1	H	579	GLN
1	H	597	GLN
1	H	624	HIS
1	H	646	GLN
1	H	673	GLN
1	H	691	ASN
1	H	700	GLN
1	H	735	ASN
1	I	253	ASN
1	I	255	HIS
1	I	290	HIS
1	I	292	HIS
1	I	305	ASN
1	I	321	GLN
1	I	343	GLN
1	I	458	GLN
1	I	527	HIS
1	I	579	GLN
1	I	597	GLN
1	I	624	HIS
1	I	646	GLN
1	I	673	GLN

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Mol	Chain	Res	Type
1	I	691	ASN
1	I	700	GLN
1	I	735	ASN
1	J	253	ASN
1	J	255	HIS
1	J	290	HIS
1	J	292	HIS
1	J	305	ASN
1	J	321	GLN
1	J	343	GLN
1	J	442	GLN
1	J	458	GLN
1	J	527	HIS
1	J	579	GLN
1	J	597	GLN
1	J	624	HIS
1	J	646	GLN
1	J	673	GLN
1	J	691	ASN
1	J	700	GLN
1	J	735	ASN
1	K	253	ASN
1	K	255	HIS
1	K	290	HIS
1	K	292	HIS
1	K	305	ASN
1	K	321	GLN
1	K	343	GLN
1	K	442	GLN
1	K	458	GLN
1	K	527	HIS
1	K	579	GLN
1	K	597	GLN
1	K	624	HIS
1	K	646	GLN
1	K	673	GLN
1	K	691	ASN
1	K	700	GLN
1	K	735	ASN
1	L	255	HIS
1	L	290	HIS
1	L	292	HIS

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Mol	Chain	Res	Type
1	L	305	ASN
1	L	321	GLN
1	L	343	GLN
1	L	442	GLN
1	L	458	GLN
1	L	527	HIS
1	L	579	GLN
1	L	597	GLN
1	L	624	HIS
1	L	646	GLN
1	L	673	GLN
1	L	691	ASN
1	L	700	GLN
1	M	253	ASN
1	M	255	HIS
1	M	290	HIS
1	M	292	HIS
1	M	305	ASN
1	M	321	GLN
1	M	343	GLN
1	M	458	GLN
1	M	527	HIS
1	M	579	GLN
1	M	597	GLN
1	M	624	HIS
1	M	646	GLN
1	M	673	GLN
1	M	691	ASN
1	M	700	GLN
1	M	735	ASN
1	N	253	ASN
1	N	255	HIS
1	N	290	HIS
1	N	292	HIS
1	N	305	ASN
1	N	321	GLN
1	N	343	GLN
1	N	458	GLN
1	N	459	GLN
1	N	527	HIS
1	N	579	GLN
1	N	597	GLN

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Mol	Chain	Res	Type
1	N	624	HIS
1	N	646	GLN
1	N	673	GLN
1	N	691	ASN
1	N	700	GLN
1	N	735	ASN
1	O	253	ASN
1	O	255	HIS
1	O	290	HIS
1	O	292	HIS
1	O	305	ASN
1	O	321	GLN
1	O	343	GLN
1	O	442	GLN
1	O	458	GLN
1	O	527	HIS
1	O	579	GLN
1	O	597	GLN
1	O	624	HIS
1	O	646	GLN
1	O	673	GLN
1	O	691	ASN
1	O	700	GLN
1	P	253	ASN
1	P	255	HIS
1	P	290	HIS
1	P	292	HIS
1	P	305	ASN
1	P	321	GLN
1	P	343	GLN
1	P	458	GLN
1	P	527	HIS
1	P	579	GLN
1	P	597	GLN
1	P	624	HIS
1	P	646	GLN
1	P	673	GLN
1	P	691	ASN
1	P	700	GLN
1	Q	253	ASN
1	Q	255	HIS
1	Q	290	HIS

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Mol	Chain	Res	Type
1	Q	292	HIS
1	Q	305	ASN
1	Q	321	GLN
1	Q	442	GLN
1	Q	458	GLN
1	Q	459	GLN
1	Q	527	HIS
1	Q	579	GLN
1	Q	597	GLN
1	Q	624	HIS
1	Q	646	GLN
1	Q	673	GLN
1	Q	691	ASN
1	Q	700	GLN
1	Q	735	ASN
1	R	253	ASN
1	R	255	HIS
1	R	290	HIS
1	R	292	HIS
1	R	305	ASN
1	R	343	GLN
1	R	442	GLN
1	R	458	GLN
1	R	527	HIS
1	R	579	GLN
1	R	597	GLN
1	R	624	HIS
1	R	646	GLN
1	R	673	GLN
1	R	691	ASN
1	R	700	GLN
1	R	735	ASN
1	S	253	ASN
1	S	255	HIS
1	S	290	HIS
1	S	292	HIS
1	S	305	ASN
1	S	321	GLN
1	S	343	GLN
1	S	458	GLN
1	S	527	HIS
1	S	579	GLN

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Mol	Chain	Res	Type
1	S	597	GLN
1	S	624	HIS
1	S	630	HIS
1	S	646	GLN
1	S	673	GLN
1	S	691	ASN
1	S	700	GLN
1	T	253	ASN
1	T	255	HIS
1	T	290	HIS
1	T	292	HIS
1	T	305	ASN
1	T	321	GLN
1	T	343	GLN
1	T	458	GLN
1	T	527	HIS
1	T	579	GLN
1	T	597	GLN
1	T	624	HIS
1	T	630	HIS
1	T	646	GLN
1	T	673	GLN
1	T	691	ASN
1	T	700	GLN
1	U	253	ASN
1	U	255	HIS
1	U	290	HIS
1	U	292	HIS
1	U	305	ASN
1	U	321	GLN
1	U	343	GLN
1	U	442	GLN
1	U	458	GLN
1	U	459	GLN
1	U	527	HIS
1	U	579	GLN
1	U	597	GLN
1	U	624	HIS
1	U	646	GLN
1	U	673	GLN
1	U	691	ASN
1	U	700	GLN

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Mol	Chain	Res	Type
1	U	735	ASN
1	V	253	ASN
1	V	255	HIS
1	V	290	HIS
1	V	292	HIS
1	V	305	ASN
1	V	321	GLN
1	V	442	GLN
1	V	458	GLN
1	V	527	HIS
1	V	579	GLN
1	V	597	GLN
1	V	624	HIS
1	V	646	GLN
1	V	673	GLN
1	V	691	ASN
1	V	700	GLN
1	V	735	ASN
1	W	253	ASN
1	W	255	HIS
1	W	290	HIS
1	W	292	HIS
1	W	305	ASN
1	W	321	GLN
1	W	343	GLN
1	W	423	HIS
1	W	442	GLN
1	W	458	GLN
1	W	459	GLN
1	W	527	HIS
1	W	579	GLN
1	W	597	GLN
1	W	624	HIS
1	W	646	GLN
1	W	673	GLN
1	W	691	ASN
1	W	700	GLN
1	X	253	ASN
1	X	255	HIS
1	X	290	HIS
1	X	292	HIS
1	X	305	ASN

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Mol	Chain	Res	Type
1	X	321	GLN
1	X	343	GLN
1	X	458	GLN
1	X	527	HIS
1	X	579	GLN
1	X	597	GLN
1	X	624	HIS
1	X	646	GLN
1	X	673	GLN
1	X	691	ASN
1	X	700	GLN
1	X	735	ASN
1	Y	253	ASN
1	Y	255	HIS
1	Y	290	HIS
1	Y	292	HIS
1	Y	305	ASN
1	Y	321	GLN
1	Y	343	GLN
1	Y	442	GLN
1	Y	458	GLN
1	Y	459	GLN
1	Y	527	HIS
1	Y	579	GLN
1	Y	597	GLN
1	Y	624	HIS
1	Y	646	GLN
1	Y	673	GLN
1	Y	691	ASN
1	Y	700	GLN
1	Y	735	ASN
1	Z	253	ASN
1	Z	255	HIS
1	Z	290	HIS
1	Z	292	HIS
1	Z	305	ASN
1	Z	321	GLN
1	Z	343	GLN
1	Z	423	HIS
1	Z	458	GLN
1	Z	527	HIS
1	Z	579	GLN

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Mol	Chain	Res	Type
1	Z	597	GLN
1	Z	624	HIS
1	Z	646	GLN
1	Z	673	GLN
1	Z	691	ASN
1	Z	700	GLN
1	Z	735	ASN
1	1	253	ASN
1	1	255	HIS
1	1	290	HIS
1	1	292	HIS
1	1	305	ASN
1	1	321	GLN
1	1	343	GLN
1	1	458	GLN
1	1	527	HIS
1	1	579	GLN
1	1	597	GLN
1	1	624	HIS
1	1	630	HIS
1	1	646	GLN
1	1	673	GLN
1	1	691	ASN
1	1	700	GLN
1	2	253	ASN
1	2	255	HIS
1	2	290	HIS
1	2	292	HIS
1	2	305	ASN
1	2	321	GLN
1	2	458	GLN
1	2	527	HIS
1	2	579	GLN
1	2	597	GLN
1	2	624	HIS
1	2	646	GLN
1	2	673	GLN
1	2	691	ASN
1	2	700	GLN
1	3	253	ASN
1	3	255	HIS
1	3	290	HIS

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Mol	Chain	Res	Type
1	3	292	HIS
1	3	305	ASN
1	3	321	GLN
1	3	458	GLN
1	3	459	GLN
1	3	527	HIS
1	3	579	GLN
1	3	597	GLN
1	3	624	HIS
1	3	646	GLN
1	3	673	GLN
1	3	691	ASN
1	3	700	GLN
1	3	735	ASN
1	4	253	ASN
1	4	255	HIS
1	4	290	HIS
1	4	292	HIS
1	4	305	ASN
1	4	321	GLN
1	4	343	GLN
1	4	442	GLN
1	4	458	GLN
1	4	459	GLN
1	4	527	HIS
1	4	579	GLN
1	4	597	GLN
1	4	624	HIS
1	4	646	GLN
1	4	673	GLN
1	4	691	ASN
1	4	700	GLN
1	4	735	ASN
1	5	253	ASN
1	5	255	HIS
1	5	290	HIS
1	5	292	HIS
1	5	305	ASN
1	5	321	GLN
1	5	343	GLN
1	5	442	GLN
1	5	458	GLN

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Mol	Chain	Res	Type
1	5	527	HIS
1	5	579	GLN
1	5	597	GLN
1	5	624	HIS
1	5	646	GLN
1	5	673	GLN
1	5	691	ASN
1	5	700	GLN
1	6	253	ASN
1	6	255	HIS
1	6	290	HIS
1	6	292	HIS
1	6	305	ASN
1	6	321	GLN
1	6	343	GLN
1	6	458	GLN
1	6	459	GLN
1	6	527	HIS
1	6	579	GLN
1	6	597	GLN
1	6	624	HIS
1	6	646	GLN
1	6	673	GLN
1	6	691	ASN
1	6	700	GLN
1	6	735	ASN
1	a	253	ASN
1	a	255	HIS
1	a	290	HIS
1	a	292	HIS
1	a	305	ASN
1	a	321	GLN
1	a	458	GLN
1	a	527	HIS
1	a	579	GLN
1	a	597	GLN
1	a	624	HIS
1	a	646	GLN
1	a	673	GLN
1	a	691	ASN
1	a	700	GLN
1	a	735	ASN

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Mol	Chain	Res	Type
1	b	253	ASN
1	b	255	HIS
1	b	290	HIS
1	b	292	HIS
1	b	305	ASN
1	b	321	GLN
1	b	343	GLN
1	b	458	GLN
1	b	527	HIS
1	b	579	GLN
1	b	597	GLN
1	b	624	HIS
1	b	646	GLN
1	b	673	GLN
1	b	691	ASN
1	b	700	GLN
1	c	253	ASN
1	c	255	HIS
1	c	290	HIS
1	c	292	HIS
1	c	305	ASN
1	c	321	GLN
1	c	458	GLN
1	c	459	GLN
1	c	527	HIS
1	c	579	GLN
1	c	597	GLN
1	c	624	HIS
1	c	646	GLN
1	c	673	GLN
1	c	691	ASN
1	c	700	GLN
1	c	735	ASN
1	d	253	ASN
1	d	255	HIS
1	d	290	HIS
1	d	292	HIS
1	d	305	ASN
1	d	321	GLN
1	d	343	GLN
1	d	458	GLN
1	d	527	HIS

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Mol	Chain	Res	Type
1	d	579	GLN
1	d	597	GLN
1	d	624	HIS
1	d	646	GLN
1	d	673	GLN
1	d	691	ASN
1	d	700	GLN
1	d	735	ASN
1	e	253	ASN
1	e	255	HIS
1	e	290	HIS
1	e	292	HIS
1	e	305	ASN
1	e	321	GLN
1	e	343	GLN
1	e	442	GLN
1	e	458	GLN
1	e	527	HIS
1	e	579	GLN
1	e	597	GLN
1	e	624	HIS
1	e	646	GLN
1	e	673	GLN
1	e	691	ASN
1	e	700	GLN
1	e	735	ASN
1	f	253	ASN
1	f	255	HIS
1	f	290	HIS
1	f	292	HIS
1	f	305	ASN
1	f	343	GLN
1	f	442	GLN
1	f	458	GLN
1	f	527	HIS
1	f	579	GLN
1	f	597	GLN
1	f	624	HIS
1	f	646	GLN
1	f	673	GLN
1	f	691	ASN
1	f	700	GLN

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Mol	Chain	Res	Type
1	f	735	ASN
1	g	253	ASN
1	g	255	HIS
1	g	290	HIS
1	g	292	HIS
1	g	305	ASN
1	g	321	GLN
1	g	343	GLN
1	g	458	GLN
1	g	527	HIS
1	g	579	GLN
1	g	597	GLN
1	g	624	HIS
1	g	646	GLN
1	g	673	GLN
1	g	691	ASN
1	g	700	GLN
1	g	735	ASN
1	h	253	ASN
1	h	255	HIS
1	h	290	HIS
1	h	292	HIS
1	h	305	ASN
1	h	321	GLN
1	h	458	GLN
1	h	527	HIS
1	h	579	GLN
1	h	597	GLN
1	h	624	HIS
1	h	646	GLN
1	h	673	GLN
1	h	691	ASN
1	h	700	GLN
1	i	253	ASN
1	i	255	HIS
1	i	290	HIS
1	i	292	HIS
1	i	305	ASN
1	i	321	GLN
1	i	343	GLN
1	i	442	GLN
1	i	458	GLN

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Mol	Chain	Res	Type
1	i	459	GLN
1	i	527	HIS
1	i	579	GLN
1	i	597	GLN
1	i	624	HIS
1	i	646	GLN
1	i	673	GLN
1	i	691	ASN
1	i	700	GLN
1	j	253	ASN
1	j	255	HIS
1	j	290	HIS
1	j	292	HIS
1	j	305	ASN
1	j	321	GLN
1	j	343	GLN
1	j	458	GLN
1	j	527	HIS
1	j	579	GLN
1	j	597	GLN
1	j	624	HIS
1	j	646	GLN
1	j	673	GLN
1	j	691	ASN
1	j	700	GLN
1	j	735	ASN
1	k	253	ASN
1	k	255	HIS
1	k	290	HIS
1	k	292	HIS
1	k	305	ASN
1	k	321	GLN
1	k	343	GLN
1	k	458	GLN
1	k	527	HIS
1	k	579	GLN
1	k	597	GLN
1	k	624	HIS
1	k	646	GLN
1	k	673	GLN
1	k	691	ASN
1	k	700	GLN

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Mol	Chain	Res	Type
1	k	735	ASN
1	l	253	ASN
1	l	255	HIS
1	l	290	HIS
1	l	292	HIS
1	l	305	ASN
1	l	321	GLN
1	l	343	GLN
1	l	442	GLN
1	l	458	GLN
1	l	459	GLN
1	l	527	HIS
1	l	579	GLN
1	l	597	GLN
1	l	624	HIS
1	l	646	GLN
1	l	673	GLN
1	l	691	ASN
1	l	700	GLN
1	l	735	ASN
1	m	253	ASN
1	m	255	HIS
1	m	290	HIS
1	m	292	HIS
1	m	305	ASN
1	m	321	GLN
1	m	343	GLN
1	m	442	GLN
1	m	458	GLN
1	m	459	GLN
1	m	527	HIS
1	m	579	GLN
1	m	597	GLN
1	m	624	HIS
1	m	646	GLN
1	m	673	GLN
1	m	691	ASN
1	m	700	GLN
1	m	735	ASN
1	n	253	ASN
1	n	255	HIS
1	n	290	HIS

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Mol	Chain	Res	Type
1	n	292	HIS
1	n	305	ASN
1	n	321	GLN
1	n	343	GLN
1	n	442	GLN
1	n	458	GLN
1	n	527	HIS
1	n	579	GLN
1	n	597	GLN
1	n	624	HIS
1	n	646	GLN
1	n	673	GLN
1	n	691	ASN
1	n	700	GLN
1	o	253	ASN
1	o	255	HIS
1	o	290	HIS
1	o	292	HIS
1	o	305	ASN
1	o	321	GLN
1	o	442	GLN
1	o	458	GLN
1	o	527	HIS
1	o	579	GLN
1	o	597	GLN
1	o	624	HIS
1	o	646	GLN
1	o	673	GLN
1	o	691	ASN
1	o	700	GLN
1	o	735	ASN
1	p	253	ASN
1	p	255	HIS
1	p	290	HIS
1	p	292	HIS
1	p	305	ASN
1	p	321	GLN
1	p	343	GLN
1	p	442	GLN
1	p	458	GLN
1	p	527	HIS
1	p	579	GLN

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Mol	Chain	Res	Type
1	p	597	GLN
1	p	624	HIS
1	p	646	GLN
1	p	673	GLN
1	p	691	ASN
1	p	700	GLN
1	p	735	ASN
1	q	253	ASN
1	q	255	HIS
1	q	290	HIS
1	q	292	HIS
1	q	305	ASN
1	q	321	GLN
1	q	458	GLN
1	q	527	HIS
1	q	579	GLN
1	q	597	GLN
1	q	624	HIS
1	q	646	GLN
1	q	673	GLN
1	q	691	ASN
1	q	700	GLN
1	r	253	ASN
1	r	255	HIS
1	r	290	HIS
1	r	292	HIS
1	r	305	ASN
1	r	321	GLN
1	r	442	GLN
1	r	458	GLN
1	r	527	HIS
1	r	579	GLN
1	r	597	GLN
1	r	624	HIS
1	r	646	GLN
1	r	673	GLN
1	r	691	ASN
1	r	700	GLN
1	r	735	ASN
1	s	253	ASN
1	s	255	HIS
1	s	290	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	s	292	HIS
1	s	305	ASN
1	s	321	GLN
1	s	343	GLN
1	s	458	GLN
1	s	527	HIS
1	s	579	GLN
1	s	597	GLN
1	s	624	HIS
1	s	646	GLN
1	s	673	GLN
1	s	691	ASN
1	s	700	GLN
1	s	735	ASN
1	t	253	ASN
1	t	255	HIS
1	t	290	HIS
1	t	292	HIS
1	t	305	ASN
1	t	321	GLN
1	t	343	GLN
1	t	458	GLN
1	t	527	HIS
1	t	579	GLN
1	t	597	GLN
1	t	624	HIS
1	t	646	GLN
1	t	673	GLN
1	t	691	ASN
1	t	700	GLN
1	t	735	ASN
1	u	253	ASN
1	u	255	HIS
1	u	290	HIS
1	u	292	HIS
1	u	305	ASN
1	u	321	GLN
1	u	343	GLN
1	u	442	GLN
1	u	458	GLN
1	u	527	HIS
1	u	579	GLN

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Mol	Chain	Res	Type
1	u	597	GLN
1	u	624	HIS
1	u	646	GLN
1	u	673	GLN
1	u	691	ASN
1	u	700	GLN
1	u	735	ASN
1	v	253	ASN
1	v	255	HIS
1	v	290	HIS
1	v	292	HIS
1	v	305	ASN
1	v	321	GLN
1	v	442	GLN
1	v	458	GLN
1	v	527	HIS
1	v	579	GLN
1	v	597	GLN
1	v	624	HIS
1	v	646	GLN
1	v	673	GLN
1	v	691	ASN
1	v	700	GLN
1	w	253	ASN
1	w	255	HIS
1	w	290	HIS
1	w	292	HIS
1	w	305	ASN
1	w	321	GLN
1	w	343	GLN
1	w	458	GLN
1	w	459	GLN
1	w	527	HIS
1	w	579	GLN
1	w	597	GLN
1	w	624	HIS
1	w	646	GLN
1	w	673	GLN
1	w	691	ASN
1	w	700	GLN
1	w	735	ASN
1	x	253	ASN

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Mol	Chain	Res	Type
1	x	255	HIS
1	x	290	HIS
1	x	292	HIS
1	x	305	ASN
1	x	321	GLN
1	x	458	GLN
1	x	459	GLN
1	x	527	HIS
1	x	579	GLN
1	x	597	GLN
1	x	624	HIS
1	x	646	GLN
1	x	673	GLN
1	x	691	ASN
1	x	700	GLN
1	x	735	ASN
1	y	253	ASN
1	y	255	HIS
1	y	290	HIS
1	y	292	HIS
1	y	305	ASN
1	y	343	GLN
1	y	458	GLN
1	y	527	HIS
1	y	579	GLN
1	y	597	GLN
1	y	624	HIS
1	y	646	GLN
1	y	673	GLN
1	y	691	ASN
1	y	700	GLN
1	y	735	ASN
1	z	253	ASN
1	z	255	HIS
1	z	290	HIS
1	z	292	HIS
1	z	305	ASN
1	z	321	GLN
1	z	343	GLN
1	z	458	GLN
1	z	527	HIS
1	z	579	GLN

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Mol	Chain	Res	Type
1	z	597	GLN
1	z	624	HIS
1	z	646	GLN
1	z	673	GLN
1	z	691	ASN
1	z	700	GLN
1	7	253	ASN
1	7	255	HIS
1	7	290	HIS
1	7	292	HIS
1	7	305	ASN
1	7	321	GLN
1	7	343	GLN
1	7	442	GLN
1	7	458	GLN
1	7	459	GLN
1	7	527	HIS
1	7	579	GLN
1	7	597	GLN
1	7	624	HIS
1	7	646	GLN
1	7	673	GLN
1	7	691	ASN
1	7	700	GLN
1	8	253	ASN
1	8	255	HIS
1	8	290	HIS
1	8	292	HIS
1	8	305	ASN
1	8	321	GLN
1	8	343	GLN
1	8	442	GLN
1	8	458	GLN
1	8	527	HIS
1	8	579	GLN
1	8	597	GLN
1	8	624	HIS
1	8	646	GLN
1	8	673	GLN
1	8	691	ASN
1	8	700	GLN
1	8	735	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

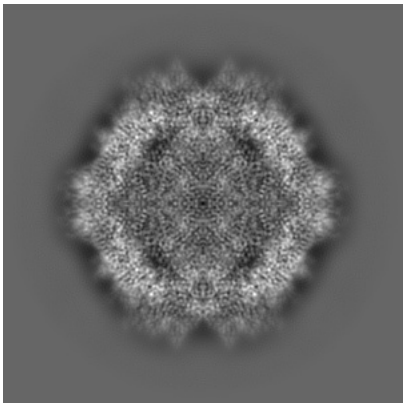
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23973. These allow visual inspection of the internal detail of the map and identification of artifacts.

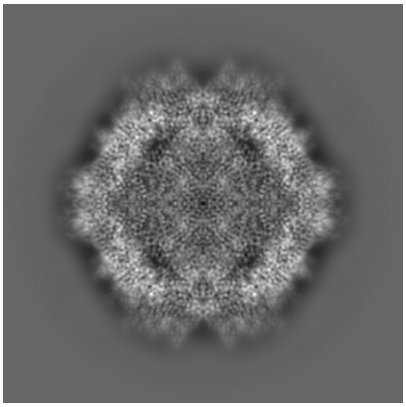
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

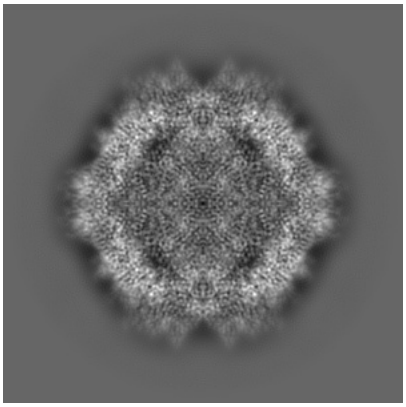
6.1.1 Primary map



X



Y

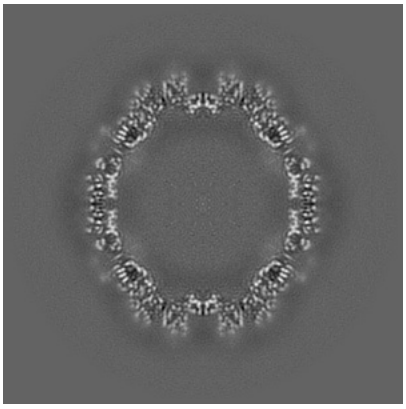


Z

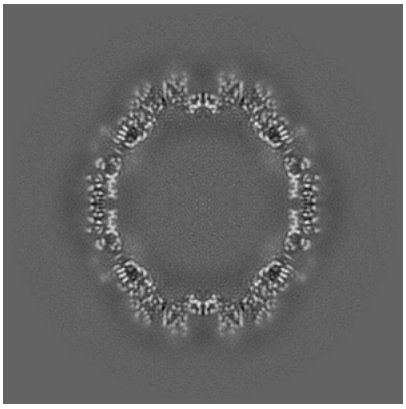
The images above show the map projected in three orthogonal directions.

6.2 Central slices

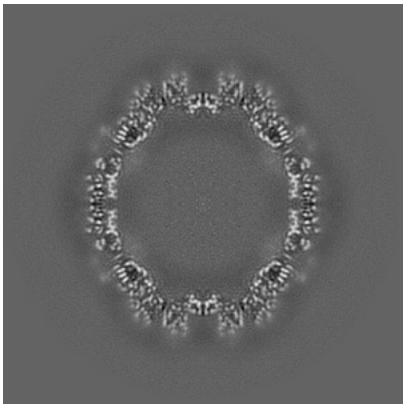
6.2.1 Primary map



X Index: 200



Y Index: 200

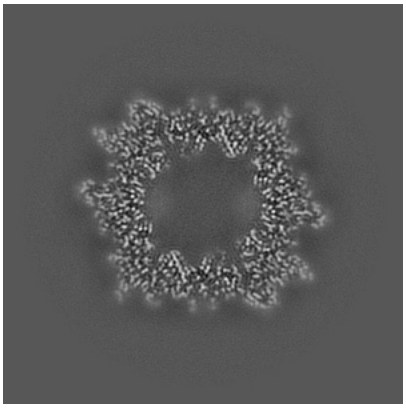


Z Index: 200

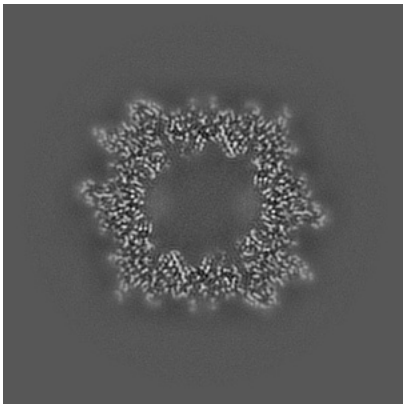
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

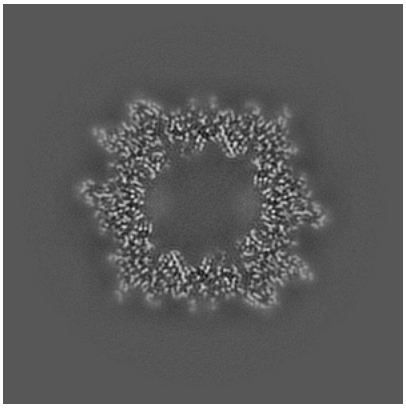
6.3.1 Primary map



X Index: 267



Y Index: 267

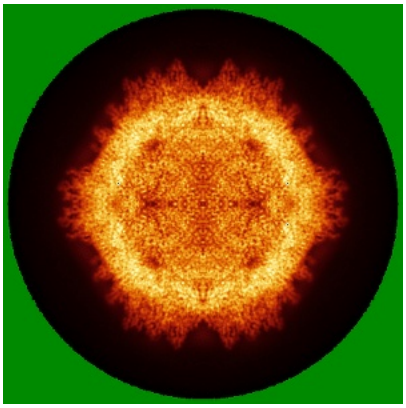


Z Index: 267

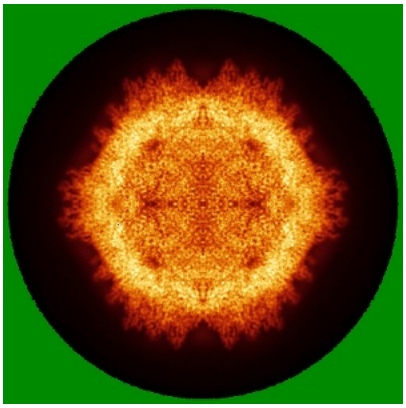
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

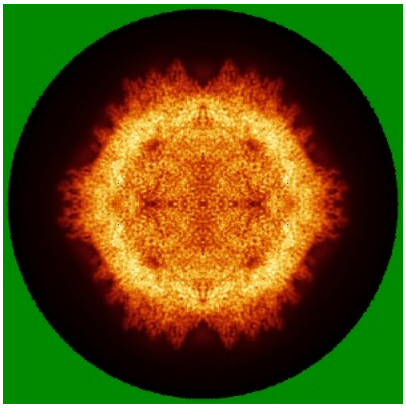
6.4.1 Primary map



X



Y

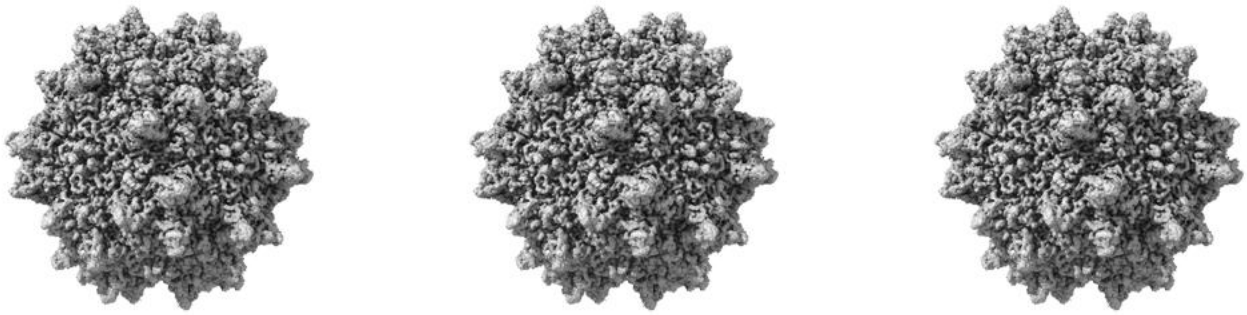


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 1.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

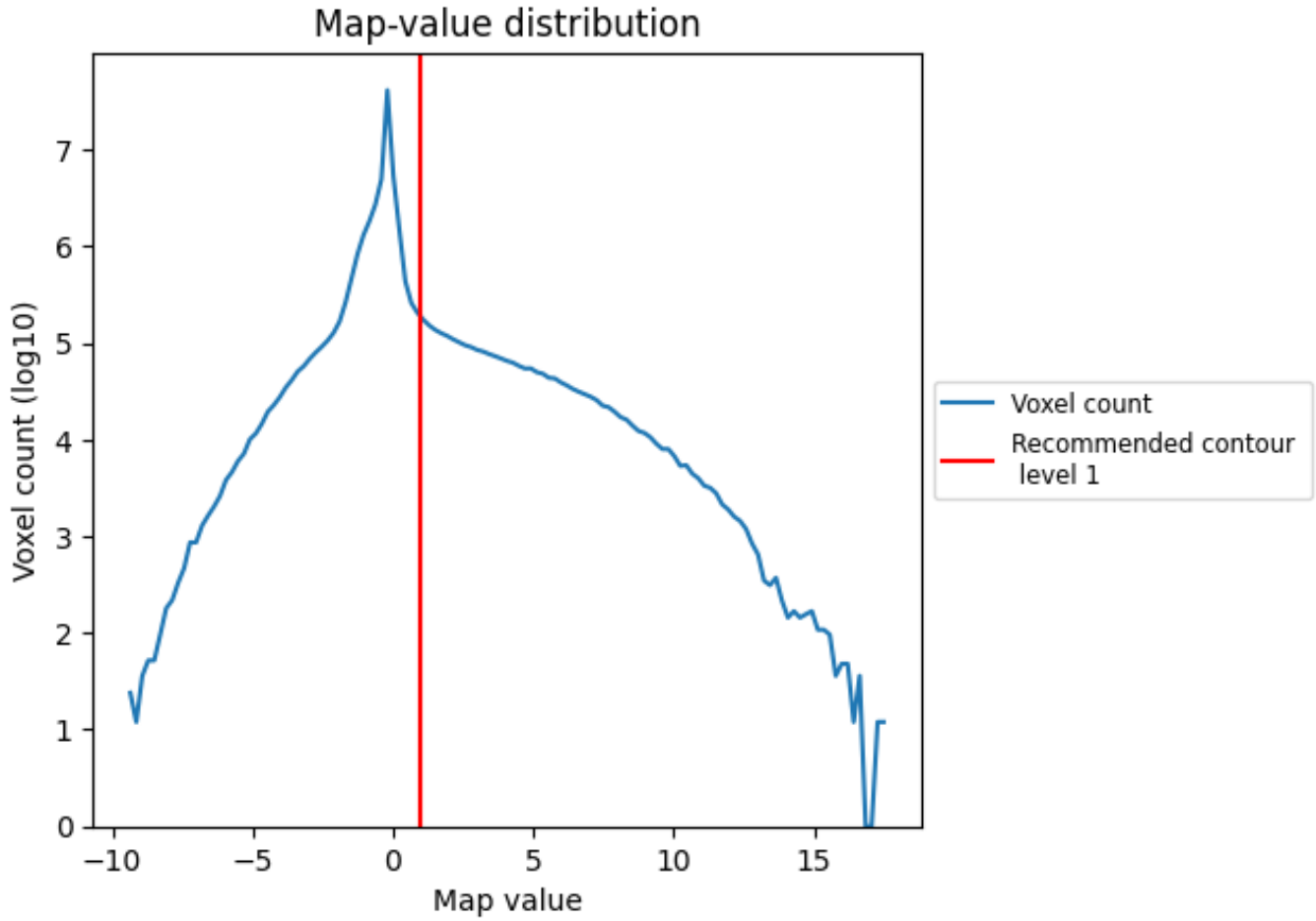
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

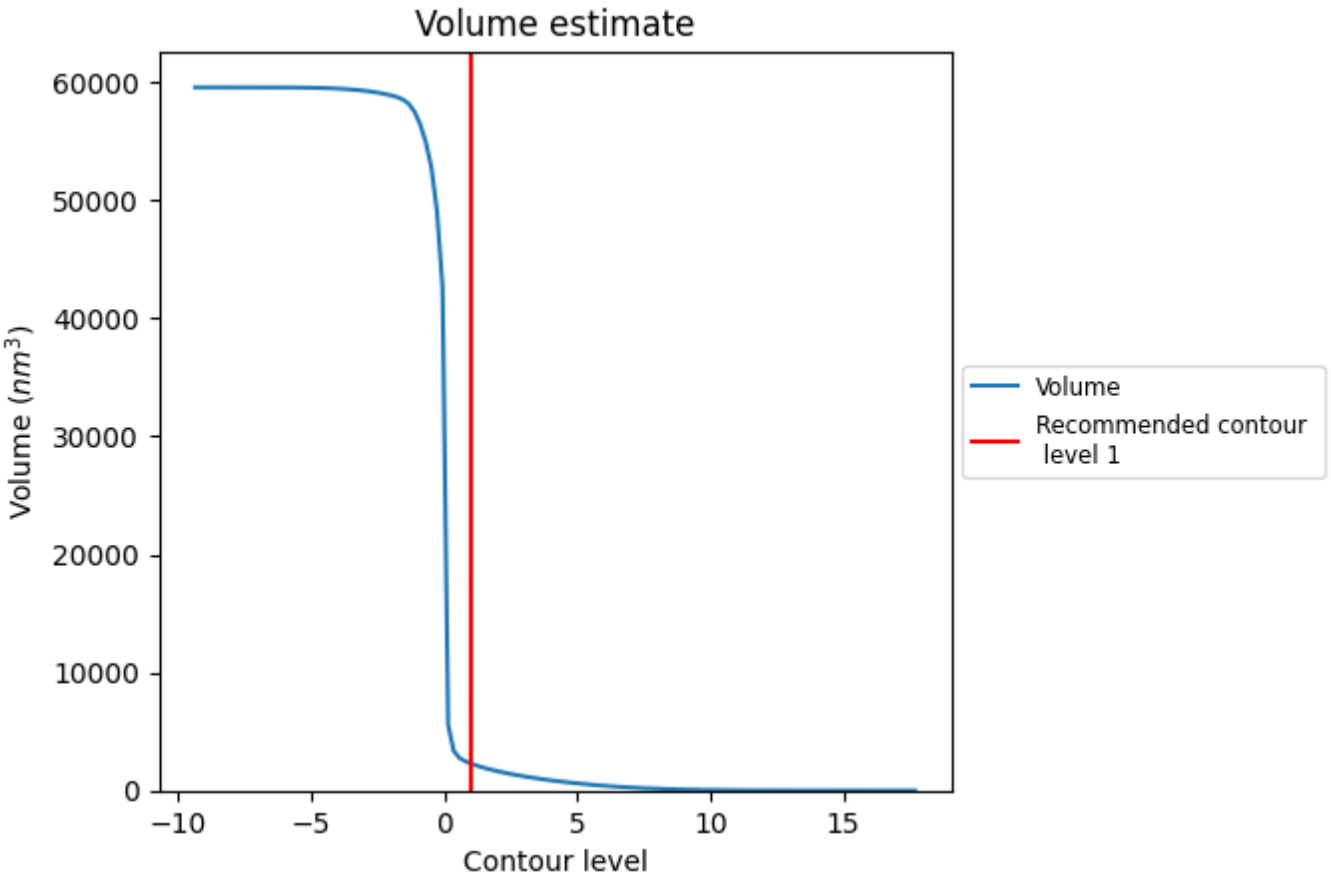
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

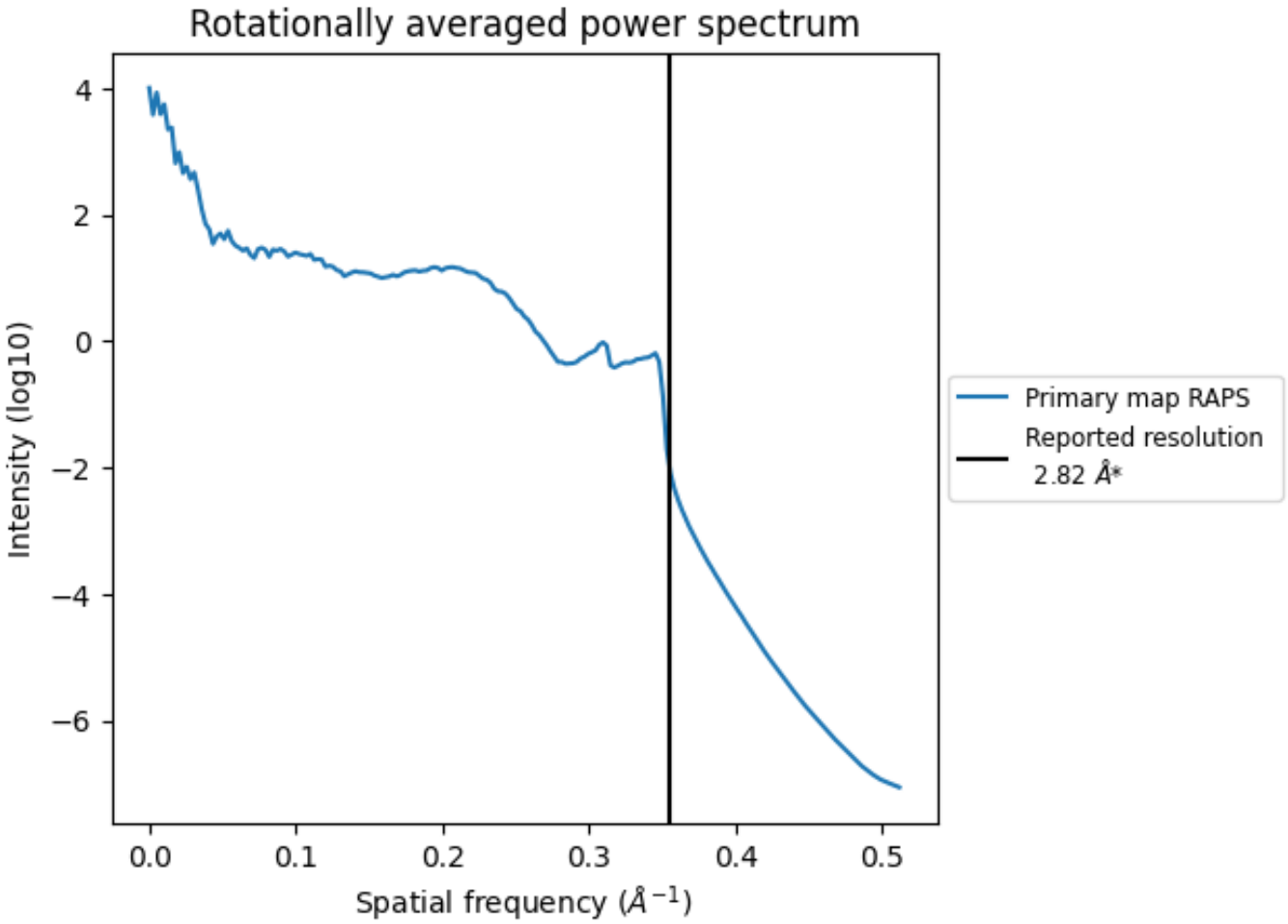
7.2 Volume estimate



The volume at the recommended contour level is 2292 nm^3; this corresponds to an approximate mass of 2070 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.355 Å^{-1}

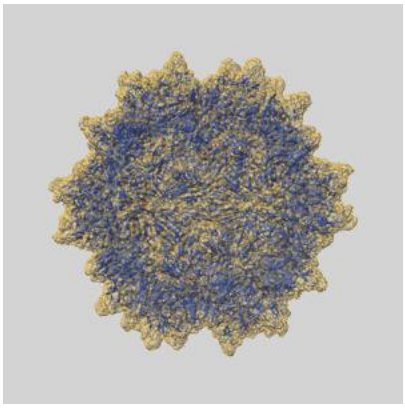
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

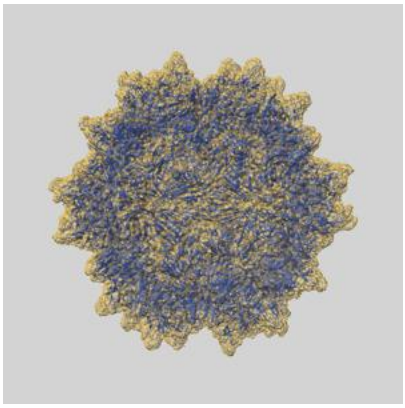
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23973 and PDB model 7MT0. Per-residue inclusion information can be found in section 3 on page 10.

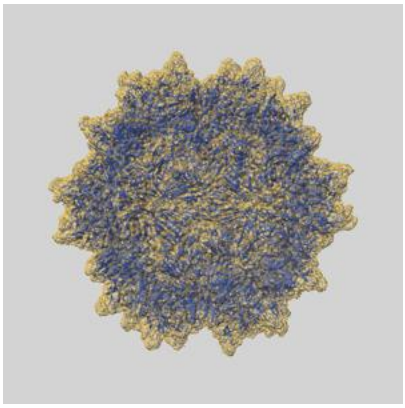
9.1 Map-model overlay



X



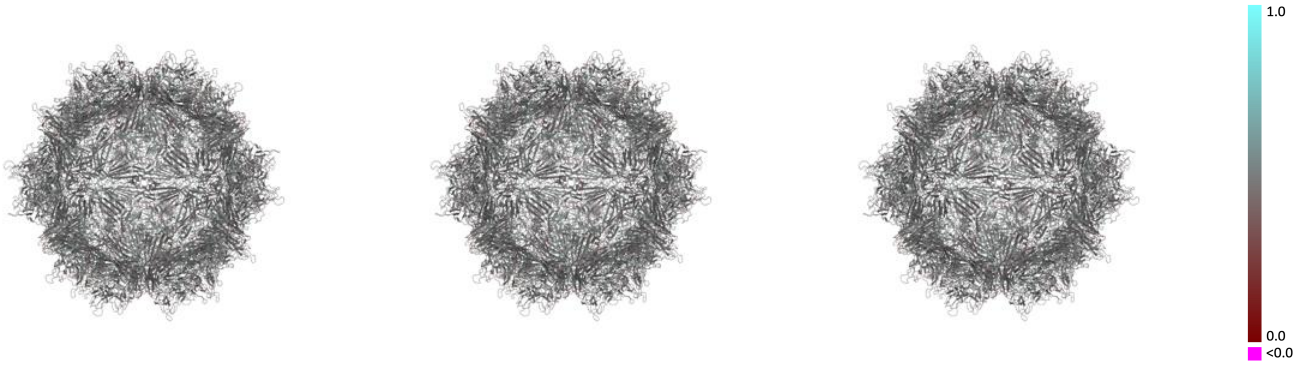
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

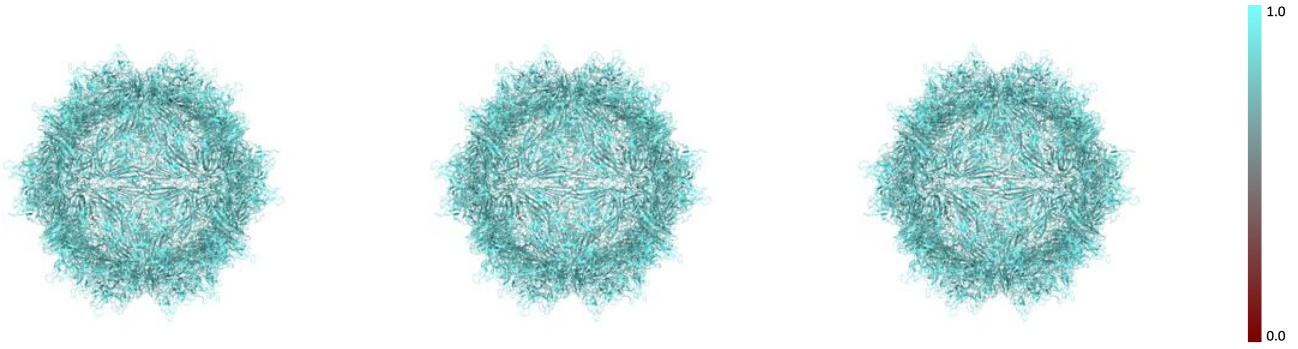
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

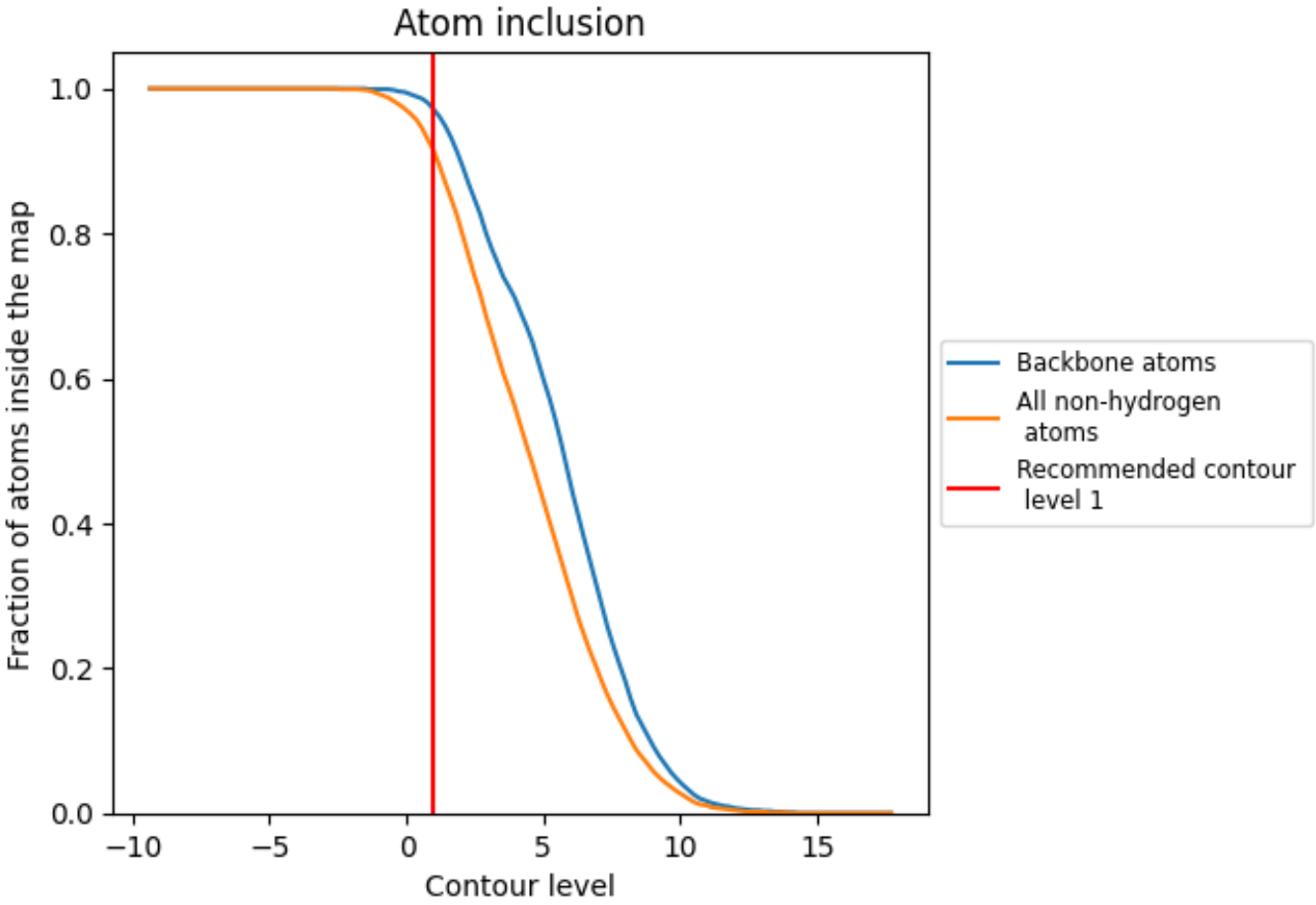
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1).

9.4 Atom inclusion (i)



At the recommended contour level, 97% of all backbone atoms, 91% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9140	0.4730
1	0.9140	0.4730
2	0.9140	0.4730
3	0.9160	0.4740
4	0.9140	0.4740
5	0.9140	0.4730
6	0.9140	0.4750
7	0.9110	0.4730
8	0.9110	0.4720
A	0.9130	0.4710
B	0.9140	0.4720
C	0.9140	0.4740
D	0.9110	0.4730
E	0.9160	0.4730
F	0.9160	0.4740
G	0.9110	0.4730
H	0.9110	0.4720
I	0.9140	0.4720
J	0.9140	0.4710
K	0.9140	0.4730
L	0.9140	0.4720
M	0.9110	0.4730
N	0.9140	0.4730
O	0.9140	0.4720
P	0.9140	0.4740
Q	0.9160	0.4740
R	0.9140	0.4740
S	0.9110	0.4740
T	0.9110	0.4730
U	0.9140	0.4740
V	0.9140	0.4740
W	0.9140	0.4730
X	0.9140	0.4730
Y	0.9140	0.4720
Z	0.9160	0.4710

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Chain	Atom inclusion	Q-score
a	0.9110	0.4730
b	0.9140	0.4720
c	0.9160	0.4730
d	0.9170	0.4730
e	0.9150	0.4740
f	0.9140	0.4730
g	0.9140	0.4720
h	0.9140	0.4720
i	0.9160	0.4730
j	0.9160	0.4720
k	0.9110	0.4720
l	0.9140	0.4710
m	0.9140	0.4720
n	0.9140	0.4720
o	0.9140	0.4730
p	0.9140	0.4730
q	0.9130	0.4730
r	0.9110	0.4710
s	0.9140	0.4720
t	0.9110	0.4720
u	0.9140	0.4730
v	0.9130	0.4730
w	0.9160	0.4730
x	0.9160	0.4730
y	0.9140	0.4730
z	0.9140	0.4740